

Department of Veterans Affairs

SOUTH TEXAS VETERANS HEALTHCARE SYSTEM AUDIE L. MURPHY MEMORIAL VETERANS HOSPITAL

7400 MERTON MINTER BLVD.

SAN ANTONIO, TEXAS

REPLACE CEILINGS & LIGHTING, 3RD AND 4TH FLOORS PROJECT # 671-11-15

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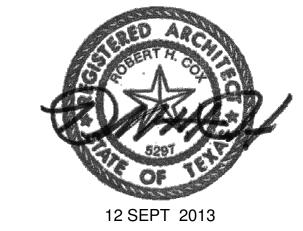
ED-401 ELECTRICAL FOURTH FLOOR LIGHTING

EL-301 ELECTRICAL THIRD FLOOR LIGHTING ELECTRICAL FOURTH FLOOR LIGHTING

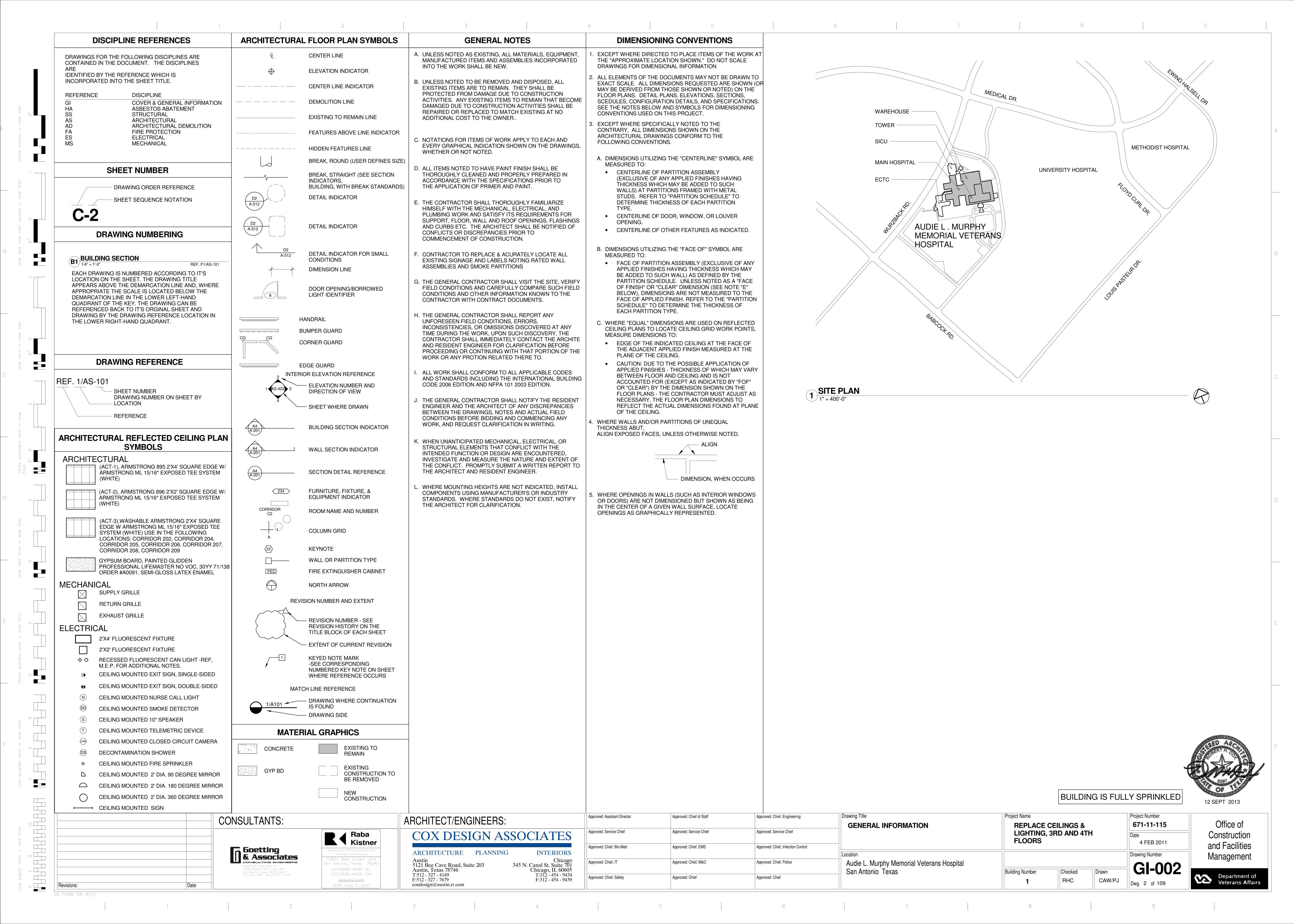
FIRE PROTECTION

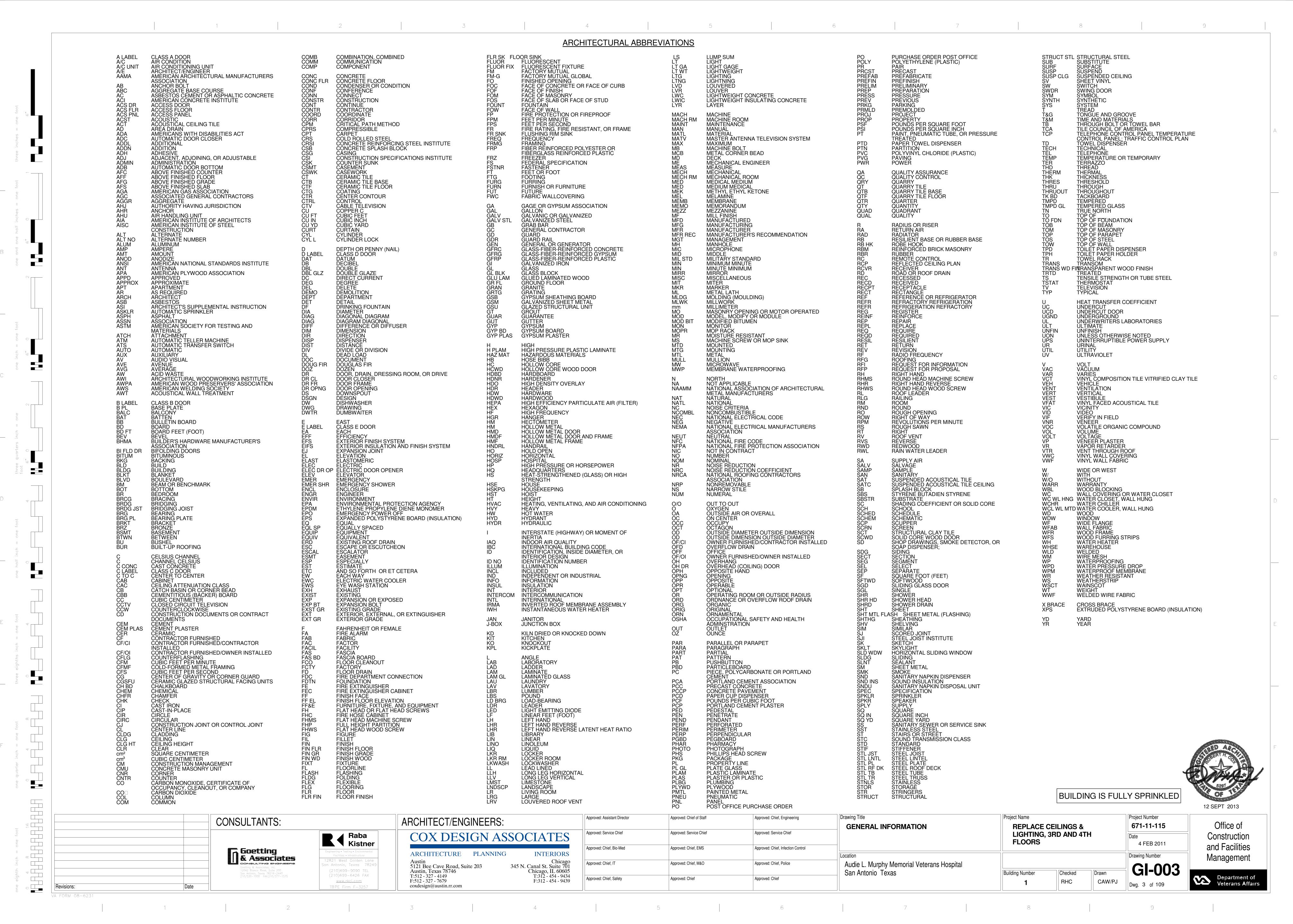
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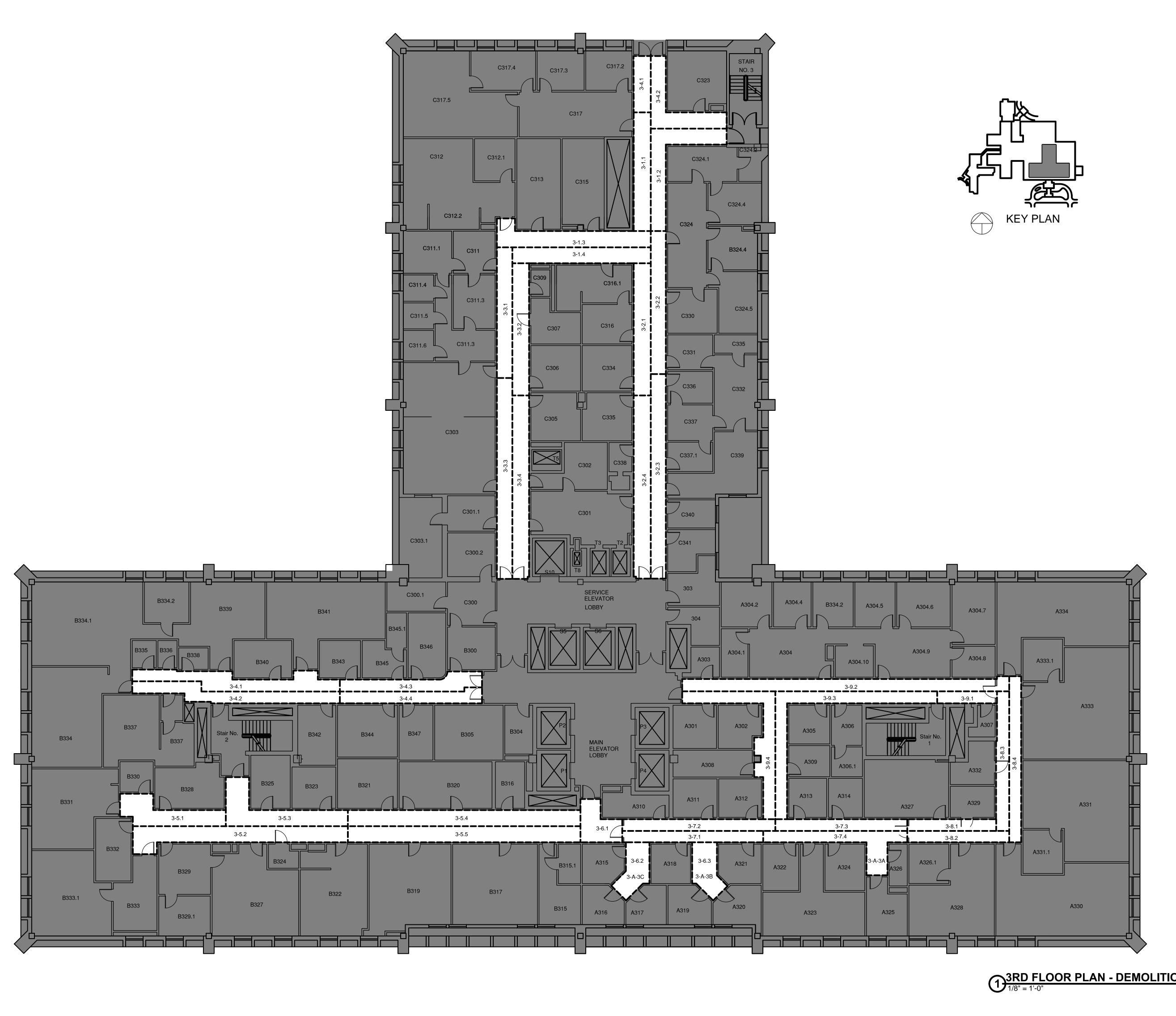
BUILDING IS FULLY SPRINKLED



| CONSULTANTS: | ARCHITECT/ENGINEERS: | Approved: Assistant Director | Approved: Chief of Staff | Approved: Chief, Engineering | Drawing Title COVER SHEET | Project Name REPLACE CEILINGS & | Project Number 671-11-115 | Office of |
|---|--|------------------------------|--------------------------|------------------------------------|--|--|----------------------------------|----------------------------|
| Raba Kistner | COX DESIGN ASSOCIATES | Approved: Service Chief | Approved: Service Chief | Approved: Service Chief | | LIGHTING, 3RD AND 4TH FLOORS | Date | Construction |
| Goetting Associates Ristrier Engineering • Testing • Environmental Facilities • Infrastructure 12821 West Golden Lane | ARCHITECTURE PLANNING INTERIORS | Approved: Chief, Bio-Med | Approved: Chief, EMS | Approved: Chief, Infection Control | Location | | 12 SEPT 2013 Drawing Number | and Facilities Managemen |
| Goetting & Associates, Inc. 12042 Blance Road Suite 200 (210)699_9090_TFL | Austin 5121 Bee Cave Road, Suite 203 Austin, Texas 78746 Chicago 345 N. Canal St. Suite 701 Chicago, IL 60605 | Approved: Chief, IT | Approved: Chief, M&O | Approved: Chief, Police | Audie L. Murphy Memorial Veterans Hospital San Antonio Texas | Building Number Checked Drawn | GI-001 | Managemen |
| San Antonio, Texas 78216–2440 210/530–7000 FAX:210/377–1575 (210)699–6426 FAX www.rkci.com | T:512 - 327 - 4149 F:512 - 327 - 7679 T:312 - 454 - 9434 F:312 - 454 - 9439 | Approved: Chief, Safety | Approved: Chief | Approved: Chief | Jan Antonio 16xas | Building Number Checked Drawn 1 RHC CAW | | Department Veterans Aff |







ABATEMENT GRAPHICAL LEGEND

---- ASBESTOS ABATEMENT PHASE / CONSTRUCTION BARRIERS

—— ABATEMENT PART DESIGNATION

——— ABATEMENT PHASE — FLOOR LEVEL

AREA NOT IN CONTRACT

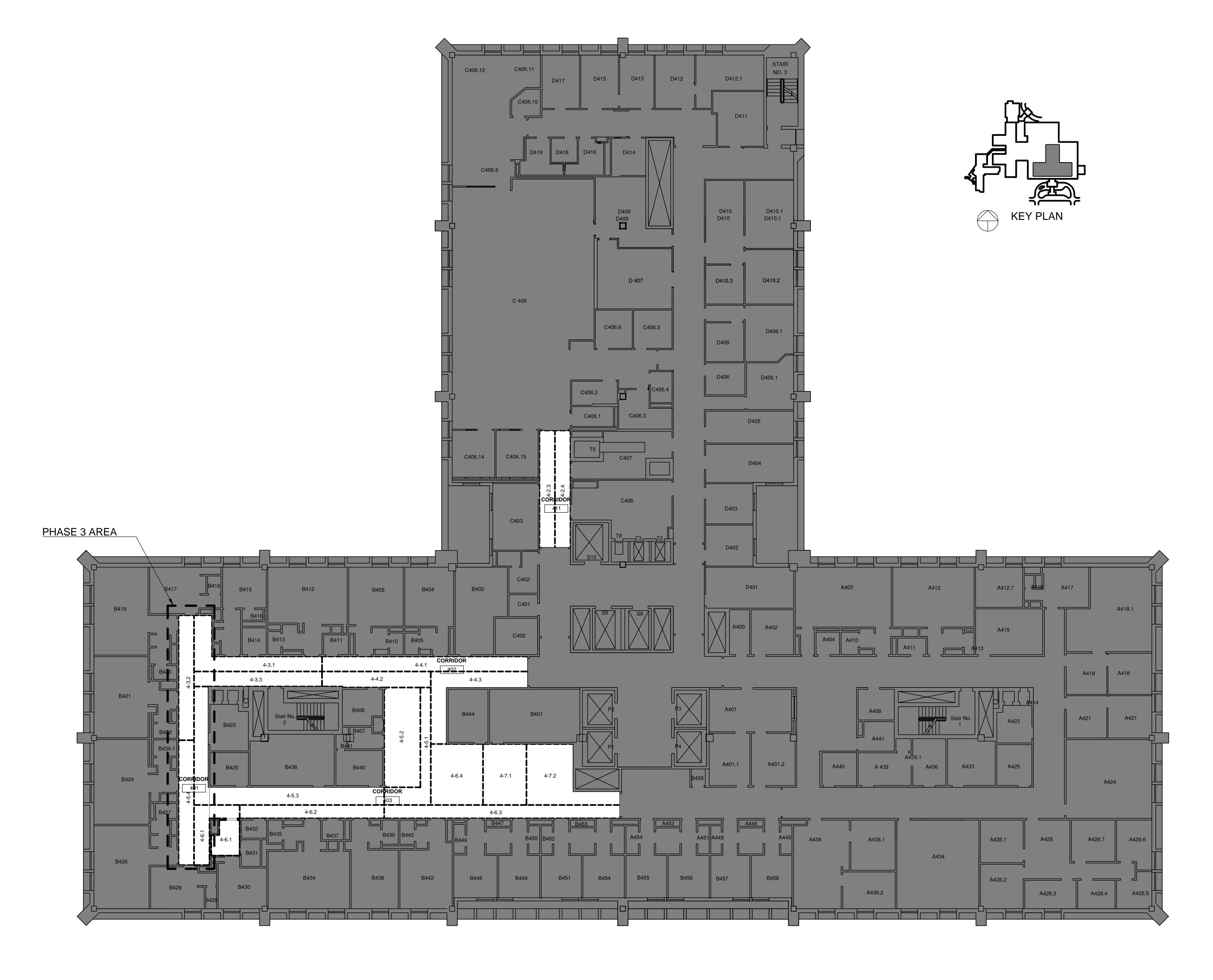
ABATEMENT NOTES

- IN THE EVENT THE ASBESTOS CONTRACTOR DISCOVERS A CONFLICT IN THE CONTRACT DOCUMENTS AND/OR REQUIREMENTS OR CODES, THE CONFLICT MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTING OFFICER FOR RESOLUTION.
- ABATEMENT ACTIVITIES INCLUDE REMOVAL CLEAN-UP AND DISPOSAL OF ACM CONTAINING LAY-IN CEILING TILE WASTE HAULING, RECORDKEEPING, SECURITY, MONITORING AND INSPECTIONS.
- WORK HOURS WILL BE FROM 1800 HRS TO 0600 HRS MONDAY-FRIDAY EXCLUDING FEDERAL HOLIDAYS. ANY CHANGE IN THE WORK SCHEDULE MUST BE APPROVED IN WRITING BY THE VA REPRESENTATIVE.
- CONTRACTOR MUST LEAVE A MINIMUM OF HALF OF THE ELEVATORS AND LOBBY ACCESSIBLE AT ALL TIMES.
- CONTRACTOR MUST LEAVE A MINIMUM OF 48" OF ANY EXISTING HALLWAY ACCESSIBLE TO HOSPITAL PERSONNEL AT ALL TIMES.
- CONTRACTOR MUST COVER THE REGULATED AREA WITH TWO LAYERS OF 6 MIL FIRE RETARDANT POLY O THE FLOORS AND TWO LAYERS OF 4 MIL FIRE RETARDANT POLY ON THE WALLS.
- THE ABATEMENT AREA WILL BE LESS THAN 260SQ/160LF.
- WORK IN THE REGULATED AREA IS COMPLETE WHEN THE REGULATED AREA IS VISUALLY CLEAN AND AIRBORNE FIBER LEVELS HAVE BEEN REDUCED TO OR BELOW 0.01 F/CC A MEASURED WITH PCM METHOD.
- THE NUMBERING OF THE ABATEMENT PHASES IS ONLY FOR IDENTIFYING AREAS OF THE BUILDING AND DOES NOT SUGGEST A SEQUENCE OF WORK. THE WORK MAY BE PURSUED AN ANY SEQUENCE.

3RD FLOOR PLAN - DEMOLITION AND ABATEMENT PHASING

16 Drawing Title Project Name Project Number Approved: Assistant Director Approved: Chief of Staff Approved: Chief, Engineering CONSULTANTS: ARCHITECT/ENGINEERS: REPLACE CEILING & Office of **3RD FLOOR PLAN - DEMOLITION AND** 671-08-126 LIGHTING **ABATEMENT PHASING** Approved: Service Chief Approved: Service Chief Approved: Service Chief Raba Kistner COX DESIGN ASSOCIATES Construction 4 FEB 2011 and Facilities Approved: Chief, Bio-Med Approved: Chief, EMS Approved: Chief, Infection Control Goetting & Associates Engineering • Testing • Environmental
Facilities • Infrastructure

12821 West Golden Lane
San Antonio, Texas 78249 ARCHITECTURE PLANNING **INTERIORS** Drawing Number Management Chicago 345 N. Canal St. Suite 701 Chicago, IL 60605 T:312 - 454 - 9434 F:312 - 454 - 9439 Austin 5121 Bee Caves Road, Suite 203 Austin, Texas 78746 T:512 - 327 - 4149 AUDIE L. MURPHY MEMORIAL VETERANS HOSPITAL Approved: Chief, IT Approved: Chief, Police Approved: Chief, M&O Goetting & Associates, Inc. 12042 Blanco Road, Suite 200 San Antonio, Texas 78216-2440 210/530-7000 FAX:210/377-1575 SAN ANTONIO, TEXAS (210)699-9090 TEL Checked (210)699-6426 FAX Department of Veterans Affairs Approved: Chief, Safety Approved: Chief Approved: Chief F:512 - 327 - 7679 coxdesign@austin.rr.com LAW MPC www.rkci.com Date TBPE Firm F-3257



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ABATEMENT GRAPHICAL LEGEND

---- ASBESTOS ABATEMENT PHASE / CONSTRUCTION BARRIERS

> L ABATEMENT PART DESIGNATION ABATEMENT PHASE

——— FLOOR LEVEL

AREA NOT IN CONTRACT

ABATEMENT NOTES

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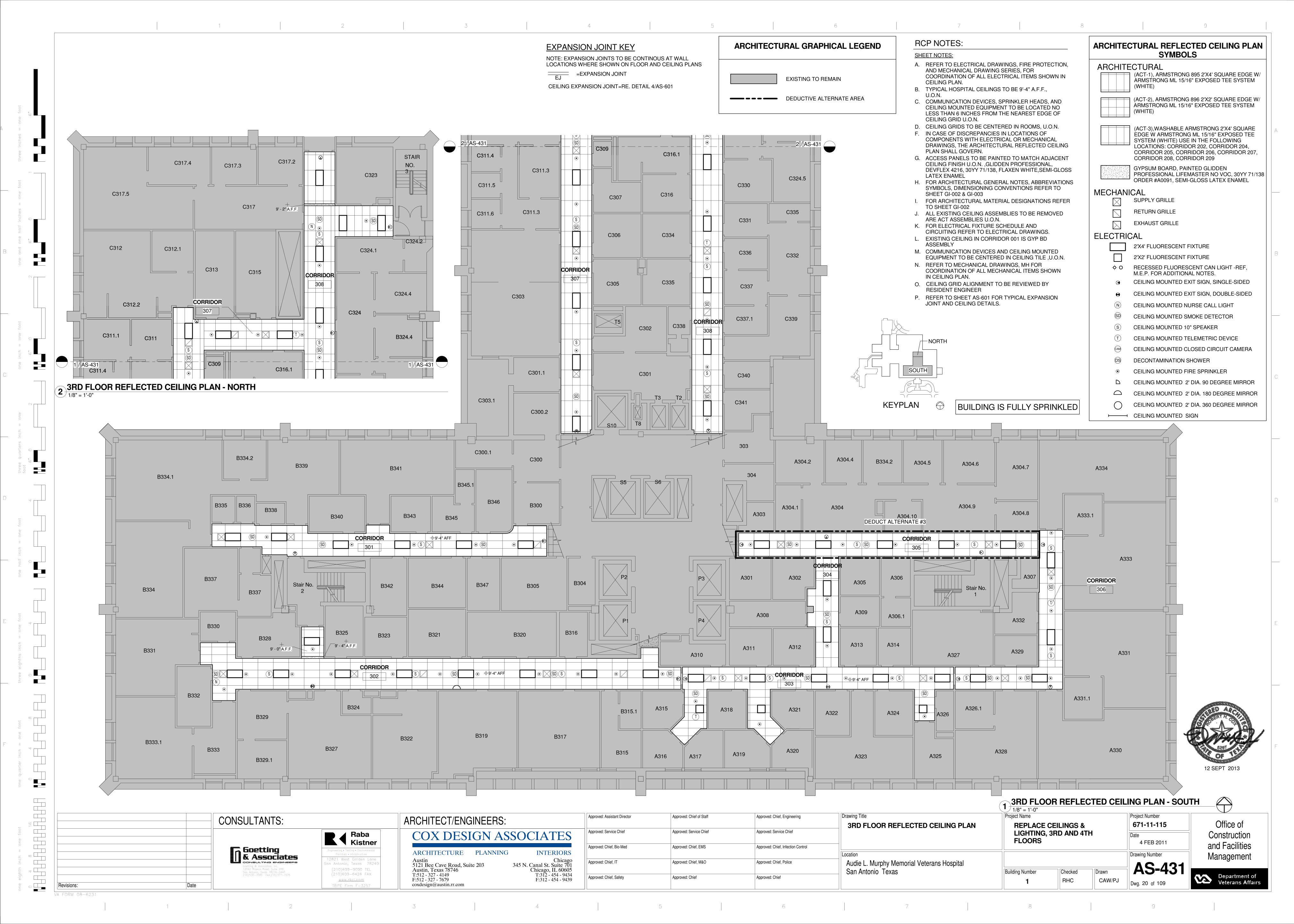
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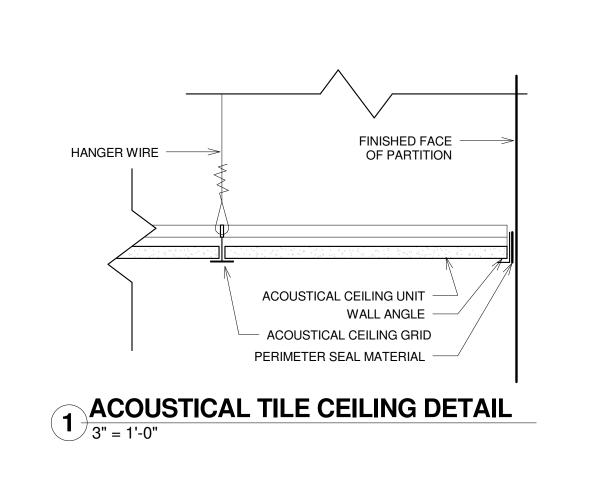
4TH FLOOR PLAN - DEMOLITION AND ABATEMENT PHASING

9 4 8 16 Drawing Title Project Number Project Name Approved: Assistant Director Approved: Chief of Staff Approved: Chief, Engineering CONSULTANTS: ARCHITECT/ENGINEERS: REPLACE CEILING & **4TH FLOOR PLAN - DEMOLITION AND** Office of 671-08-126 **LIGHTING ABATEMENT PHASING** Approved: Service Chief Approved: Service Chief Approved: Service Chief Raba Kistner COX DESIGN ASSOCIATES Construction 4 FEB 2011 and Facilities Approved: Chief, Bio-Med Approved: Chief, EMS Approved: Chief, Infection Control Goetting & Associates Engineering • Testing • Environmental
Facilities • Infrastructure

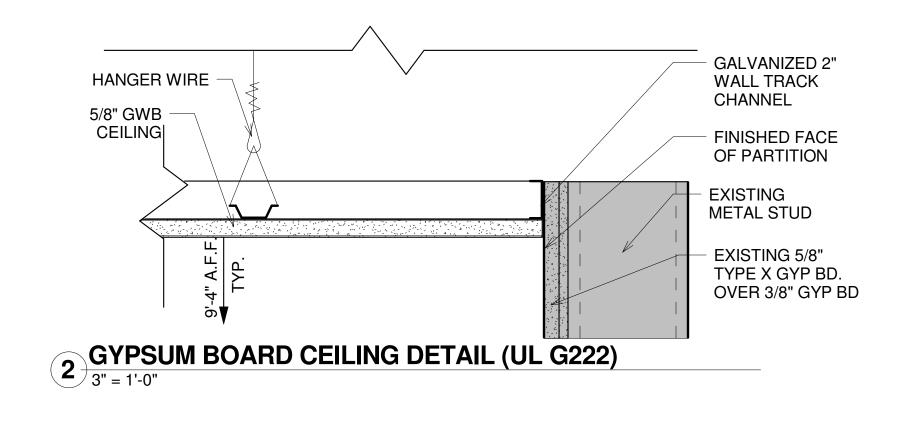
12821 West Golden Lane
San Antonio, Texas 78249 ARCHITECTURE PLANNING **INTERIORS** Management Chicago 345 N. Canal St. Suite 701 Chicago, IL 60605 T:312 - 454 - 9434 F:312 - 454 - 9439 Austin
5121 Bee Caves Road, Suite 203
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T:512 - 327 - 4149
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coxdesign@austin.rr.com AUDIE L. MURPHY MEMORIAL VETERANS HOSPITAL Approved: Chief, IT Approved: Chief, Police Approved: Chief, M&O Goetting & Associates, Inc. 12042 Blanco Road, Suite 200 San Antonio, Texas 78216-2440 210/530-7000 FAX:210/377-1575 SAN ANTONIO, TEXAS (210)699-9090 TEL Checked (210)699-6426 FAX Department of Veterans Affairs Approved: Chief, Safety Approved: Chief Approved: Chief MPC www.rkci.com Date TBPE Firm F-3257

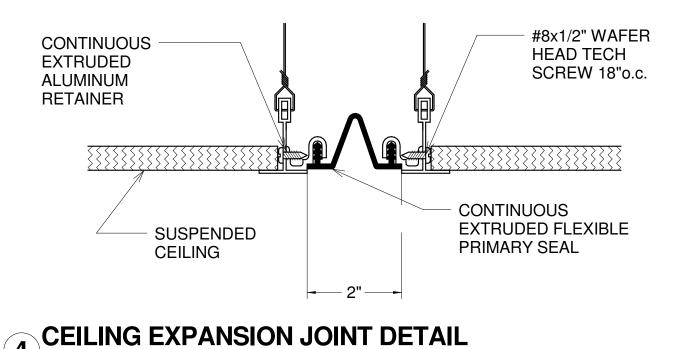




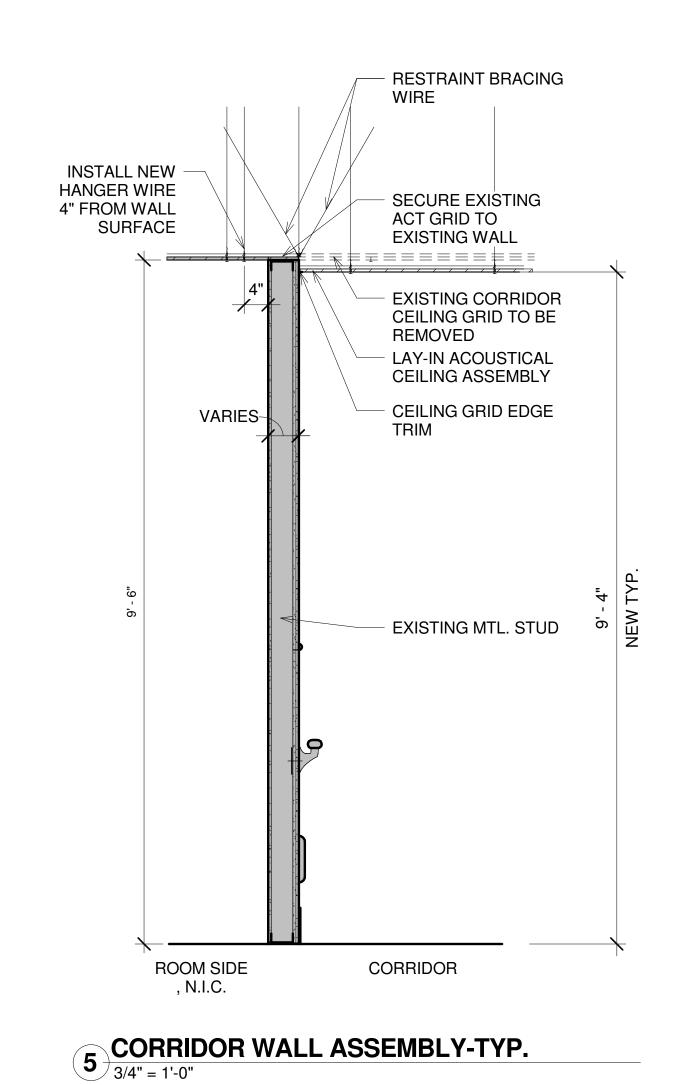


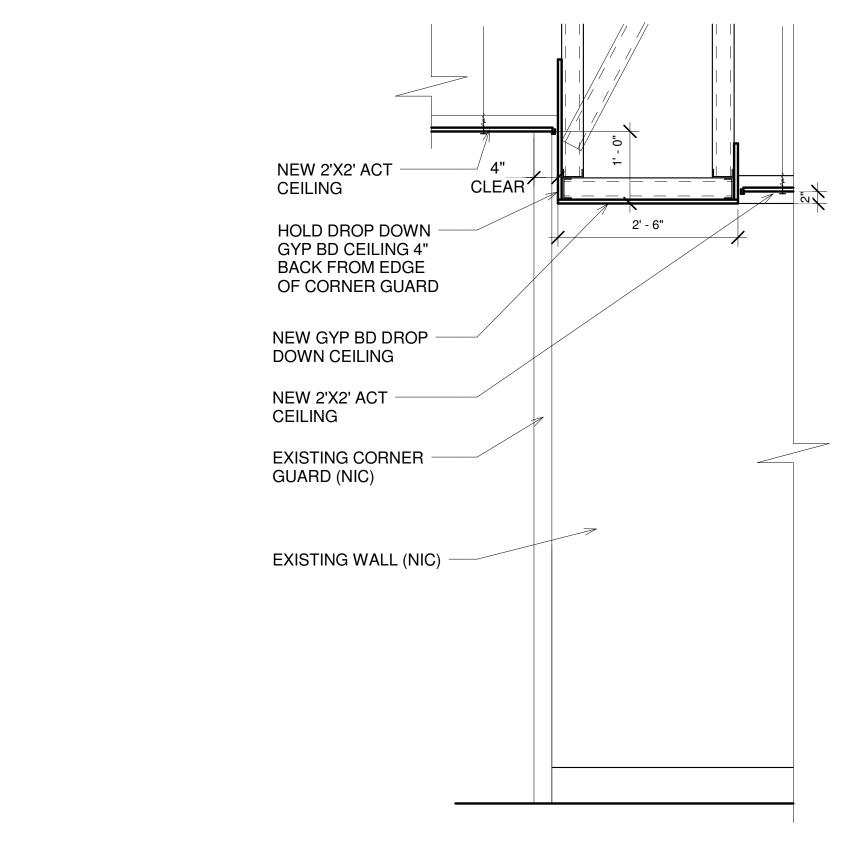
8 4 8





CEILING EXPANSION JOINT DETAIL6" = 1'-0"





6 FURR DOWN CEILING AT CORNER GUARD
3/4" = 1'-0"

ARCHITECTURAL GRAPHICAL LEGEND EXISTING TO REMAIN DEDUCTIVE ALTERNATE AREA

BUILDING IS FULLY SPRINKLED





| CONSULTANTS: | ARCHITECT/ENGINEERS: | Approved: Assistant Director | Approved: Chief of Staff | Approved: Chief, Engineering | Drawing Title ARCHITECTURAL DETAILS | Project Name REPLACE CEILINGS & | Project Number 671-11-115 | Office of |
|--|--|------------------------------|--------------------------|------------------------------------|--|---|---------------------------|--------------------------------|
| Raba Kistner | COX DESIGN ASSOCIATES | Approved: Service Chief | Approved: Service Chief | Approved: Service Chief | | LIGHTING, 3RD AND 4TH FLOORS | Date 4 FEB 2011 | Construction |
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 9

MECHANICAL SYMBOLS & ABBREVIATIONS

ABBREVIATIONS

ABBREVIATIONS

ACCU

ACRU

AFW

AFCV

COMP

CWP

DCP

DFA

F&T

FLR.

F.DPR.

ICF

LCD

LCP

LEF

LEV

LPR

LPS

LTCP

LB/HR

MPS (

MAX.

MIN.

NOM.

O/A

OBD

PRV

R/A

RTA

S/A

S.DPR.

SF

Sp.Gr.

DESCRIPTION

AIR COOLED DX CONDENSER

ABOVE FINISHED FLOOR

AIR FLOW CONTROL VALVE

AIR FLOW MEASURING DEVICE

BACKWARD INCLINED WHEEL

CENTRIFUGAL OR HELICAL ROTARY SCREW CHILLER UNIT

ACCESS DOOR

AFTER FILTER

AIR FOIL WHEEL

ACCESS PANEL

CONVERTOR

COOLING COIL

AIR HANDLING UNIT

CHILLED WATER PUMP

CEILING DIFFUSER CENTRIFUGAL FAN

COMPRESSOR UNIT

CONDENSATE PUMP

DROP FROM ABOVE

DROP TO BELOW

EXHAUST AIR

EXHAUST FAN

END OF LINE

EXISTING

FLOOR

HOOD

EXPANSION TANK

FAN COIL UNIT

FLOOR DRAIN

FIRE DAMPER HEATING COIL

HORSEPOWER

HOT WATER PUMP

POUNDS PER HOUR

MAKE-UP AIR UNIT

MIXING BOX

MAXIMUM

MINIMUM

NOMINAL

PUMP

OUTSIDE AIR

PRE-FILTER

RETURN AIR

REHEAT COIL

PREHEAT

OPPOSED BLADE DAMPER

PRESSURE REDUCING VALVE

ROOF EXHAUST VENT

RETURN AIR FAN

RISE FROM BELOW

RELATIVE HUMIDITY

SOUND ATTENUATING UNIT

SMOKE CONTROL DAMPER

STATIC PRESSURE SENSOR

STATIC PRESSURE (INCHES OF WATER)

STEAM TO WATER HEAT EXCHANGER

RISE TO ABOVE

ROOF TOP UNIT

SMOKE DAMPER

SPECIFIC GRAVITY

STEAM HUMIDIFIER

STAINLESS STEEL SAFETY VALVE

SUPPLY FAN

RELIEF VALVE

SUPPLY AIR

PRESSURE DROP (FEET OF WATER)

LIQUID COOLER

IN-LINE CENTRIFUGAL FAN

LINEAR CEILING DIFFUSER

LABORATORY CONTROL PANEL

LABORATORY EXHAUST VALVE

LABORATORY EXHAUST FAN

ENTRANCE HEATER

CONDENSER WATER PUMP

AUTOMATIC CONTROL DAMPER

DRY BULB TEMPERATURE, 'F

DISTRIBUTED CONTROL PANEL

DEW POINT TEMPERATURE, 'F

ENGINEERING CONTROL CENTER

ENERGY EFFICIENCY RATIO

END OF MAIN DRIP (STEAM)

FLOAT AND THERMOSTATIC TRAP

HIGH PRESSURE CONDENSATE RETURN

HIGH PRESSURE (60 PSIG & ABOVE)

LOW PRESSURE STEAM CONDENSATE RETURN

LOW PRESSURE STEAM (15 PSIG & BELOW)

LOCAL TEMPERATURE CONTROL PANEL

MEDIUM PRESSURE CONDENSATE RETURN

MEDIUM PRESSURE STEAM (16 PSIG THRU 59 PSIG)

DIFFERENTIAL PRESSURE TRANSMITTER

COOLING TOWER

COLD WATER

DECIBELS

CEILING GRILLE

CLEAN OUT

AIR COOLED CONDENSING UNIT

AIR COOLED RECIP. CHILLER UNIT

UNIT HEATER VALVE VANE AXIAL FAN VOLUMETRIC CONTROL DAMPER VOLUME DAMPER (MANUAL OPPOSED BLADE) VOLUME EXTRACTOR **VSMC** VARIABLE SPEED MOTOR CONTROLLER WET BULB TEMPERATURE, 'F WATER FILTER WATER FLOW MEASURING DEVICE

PIPING SYMBOLS

HEATING

HIGH PRESSURE STEAM (60 PSIG AND ABOVE) MEDIUM PRESSURE STEAM (16 PSIG THRU 59 PSIG) LOW PRESSURE STEAM (15 PSIG AND BELOW) HIGH PRESSURE CONDENSATE RETURN MEDIUM PRESSURE CONDENSATE RETURN ---LPR---LOW PRESSURE CONDENSATE RETURN EXISTING PIPING ____ —— PCR —— PUMP CONDENSATE RETURN ——HWH—— HOT WATER HEATING SUPPLY HOT WATER HEATING RETURN --- HWHR- ---VENT LINE —V—V— STEAM VENT ____ SV ____

AIR CONDITIONING

CHILLED WATER SUPPLY ——CH—— ——CHR—— CHILLED WATER RETURN MAKE-UP WATER DRAIN LINE — D — ——CS—— CONDENSER WATER SUPPLY CONDENSER WATER RETURN —— CR —— REFRIGERANT LIQUID —— RL —— ——RHG—— REFRIGERANT HOT GAS

GENERAL

—— RS ——

DIRECTION OF PIPE PITCH (DOWN) DIRECTION OF FLOW ANCHOR $\overline{}$ REDUCER OR INCREASER ECCENTRIC REDUCER ____ TOP CONNECTION, 45° OR 90° ____(¹)____ BOTTOM CONNECTION, 45° OR 90° SIDE CONNECTION ____ RISE OR DROP IN PIPE **─**── POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK FLOAT AND THERMOSTATIC TRAP SET INCLUDING PIPING ACCESORIES STEAM TRAP STRAINER $\overline{}$ пинини THERMOMETER PRESSURE GAUGE WATER FLOW MEASURING DEVICE EXISTING PIPING TO BE REMOVED \times \times \times

FLOOR DRAIN

FLEXIBLE PIPE CONNECTORS

REFRIGERANT SUCTION

PIPING SYMBOLS

<u>VALVES</u> $\longrightarrow \bigvee \longmapsto$ GATE VALVE GLOBE VALVE CHECK VALVE BALANCING VALVE PRESSURE REDUCING VALVE

STRAIGHT-THRU MODULATING CONTROL VALVE THREE-WAY MODULATING CONTROL VALVE SAFETY VALVE OR PRESSURE RELIEF MANUAL AIR VENT BUTTERFLY VALVE

BALL VALVE

PIPE SLEEVE

GATE VALVE WITH ADAPTER TO 3/4" HOSE THREAD -ANGLE GATE VALVE ANGLE GLOBE VALVE TEST PLUG (PRESSURE/TEMPERATURE) STEAM HUMIDIFIER

CONTROLS ROOM SENSOR: TEMPERATURE, HUMIDITY SMOKE DETECTOR (SEE ELECTRICAL SPECIFICATIONS) PIPE FLOW SWITCH FLOW TRANSMITTER PIPE PRESSURE SWITCH PIPE DIFFERENTIAL PRESSURE SENSOR PIPE PRESSURE SENSOR ⟨ DCP → SIGNAL TO DISTRIBUTED CONTROL PANEL (DCP) DCP SIGNAL FROM DISTRIBUTED CONTROL PANEL (DCP)

SIGNAL TO AND FROM DCP

< DCP>—∹ STATIC PRESSURE SENSOR

VALVE WITH ELECTRONIC ACTUATOR VALVE WITH PNEUMATIC ACTUATOR

NOTICE: FOR ADDITIONAL CONTROL SYMBOLS AND ABBREVIATIONS REF. 205-H09.01

EQUIPMENT SYMBOLS

SPRING ISOLATOR - PIPE OR EQUIPMENT VIBRATION ISOLATOR NEW EQUIPMENT (HVAC) EQUIPMENT (NON-HVAC) $\longrightarrow \bigcirc \longrightarrow$ PUMP CENTRIFUGAL FAN ROOF VENTILATOR, INTAKE ROOF VENTILATOR, EXHAUST

DOUBLE DUCT TERMINAL UNIT

DUCTWORK SYMBOLS

SUPPLY DUCT (UP & DOWN)

EXHAUST DUCT (UP & DOWN)

CEILING DIFFUSERS

FLEXIBLE CONNECTION

STATIC PRESSURE SENSOR

STANDARD RADIUS ELBOW

EXISTING DUCT TO REMAIN

MANUAL VOLUME DAMPER

UNIT HEATER (HORIZONTAL)

MOTORIZED DAMPER

DUCT HUMIDIFIER

DRAWING SYMBOLS

SECTION NUMBER

\H3.03/←── DRAWING NUMBER WHERE DRAWN

\H7.02/-- DRAWING NUMBER WHERE DRAWN

2 \ DETAIL NUMBER

|FFL: 560.00 ← FLOOR ELEV.

TYPICAL UNIT NO.

(123)**←** VALVE NUMBER

LOUVER

FIRE DAMPER

SMOKE DAMPER

NEW DUCT - WIDTH X DEPTH

EXISTING DUCTWORK TO BE REMOVED

FLEXIBLE DUCTWORK (INSULATED)

RETURN AIR DUCT (UP & DOWN)

SUPPLY TOP REGISTER (WALL TYPE)

EXHAUST CEILING REGISTER OR GRILLE

RETURN AIR CEILING REGISTER OR GRILLE

CONNECT NEW DUCT TO EXISTING DUCT

INCLINED RISE IN DIRECTION OF ARROW

INCLINED DROP IN DIRECTION OF ARROW

EXHAUST BOTTOM REGISTER OR GRILLE (WALL TYPE)

RETURN AIR BOTTOM REGISTER OR GRILLE (WALL TYPE)

VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR

ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)

₩ UP ₩ DN

☑ UP ☑ DN

₩-R

10 x 8

_ - - - -

7777777

F.DPR

S.DPR.

- 1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILING.
- 2. FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.

GENERAL NOTES:

- 3. ACCESS PANELS IN SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC., AND SHALL BE FURNISHED AND INSTALLED UNDER ARCHITECTURAL SPECIFICATIONS.
- 4. TOTAL STATIC PRESSURE NOTED IN SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
- 5. FOR TYPICAL STEAM & WATER PIPING CONNECTIONS TO EQUIPMENT SEE STANDARD DETAILS.
- 6. CEILING DIFFUSER SIZES SHOWN ON SCHEDULES ARE NECK SIZES.
- 7. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE SO THERE WILL BE COUNTER FLOW BETWEEN WATER AND AIR.
- 8. ALL TEMPERATURE AND HUMIDITY SENSORS SHALL BE PROVIDED WITH ELECTRONIC CONTROLLERS TO PROVIDE PROPER OPERATION OF VALVES.
- 9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING DIFFUSER, REGISTERS AND GRILLES.
- 10. DIMENSIONS INDICATED ON THE DRAWING $\mid \! 8 \mid \! ^4 \mid$ INDICATES THE APPROXIMATE HEIGHT 8'-4" ABOVE FINISHED FLOOR LEVEL TO THE UNDERSIDE OF THE DUCT, OR CENTERLINE OF PIPING. THIS INFORMATION IS PROVIDED AS AN AID TO COORDINATION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE.
- 11. INSULATED PIPEWORK SHALL BE SPACED TO ENSURE THAT FULL THICKNESS INSULATION CAN BE APPLIED TO EACH PIPE.
- 12. ALL FLOOR BRANCHES OFF PIPE RISERS SHALL BE PROVIDED WITH SHUT OFF VALVES AND VALVED DRAIN CONNECTION.

DEMOLITION NOTES:

- 1. THE CONTRACTOR SHALL VERIFY LOCATION AND QUANTITY OF ITEMS TO BE REMOVED, AS NO ALLOWANCE WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS.
- 2. MATERIALS AND ITEMS REMOVED DURING DEMOLITION SHALL BE DISPOSED OF OFF-BASE BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- ITEMS SPECIFICALLY NOTED IN THE SPECIFICATIONS TO BE SALVAGED SHALL BE DELIVERED TO SUCH DESTINATION AS DIRECTED BY THE CONTRACTING OFFICERS REPRESENTATIVE.
- 3. EXISTING AIR DEVICES & DUCTWORK SHALL NOT BE REUSED. REMOVE AIR DEVICES.
- 4. HOLES AND DAMAGED AREAS CAUSED BY REMOVAL OF ANY OF THE ABOVE ITEMS AND WHICH ARE NOT CONCEALED BY NEW CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING SURFACES. IN ADDITION, OPENINGS CREATED BY THE REMOVAL OF THESE ITEMS THROUGH FIRE RESISTANCE RATED WALLS OR CEILINGS SHALL BE FIRE STOPPED.

SMOKE & FIRE WALL DESIGNATIONS

----- EQUIPMENT ABBREVIATION

(205-AH.1) AIR HANDLER SYSTEM NO. 1

BUILDING REF.

OOOOOOOO ONE HOUR SMOKE AND FIRE BARRIER --OO--OO-- TWO HOUR SMOKE AND FIRE BARRIER



Project Number

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ARCHITECT/ENGINEERS: **COX DESIGN ASSOCIATES**

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Approved: Service Chief Approved: Service Chief Approved: Chief, Bio-Med Approved: Chief, EMS Approved: Chief, IT Approved: Chief, M&O Approved: Chief, Police Approved: Chief, Safety Approved: Chief Approved: Chief

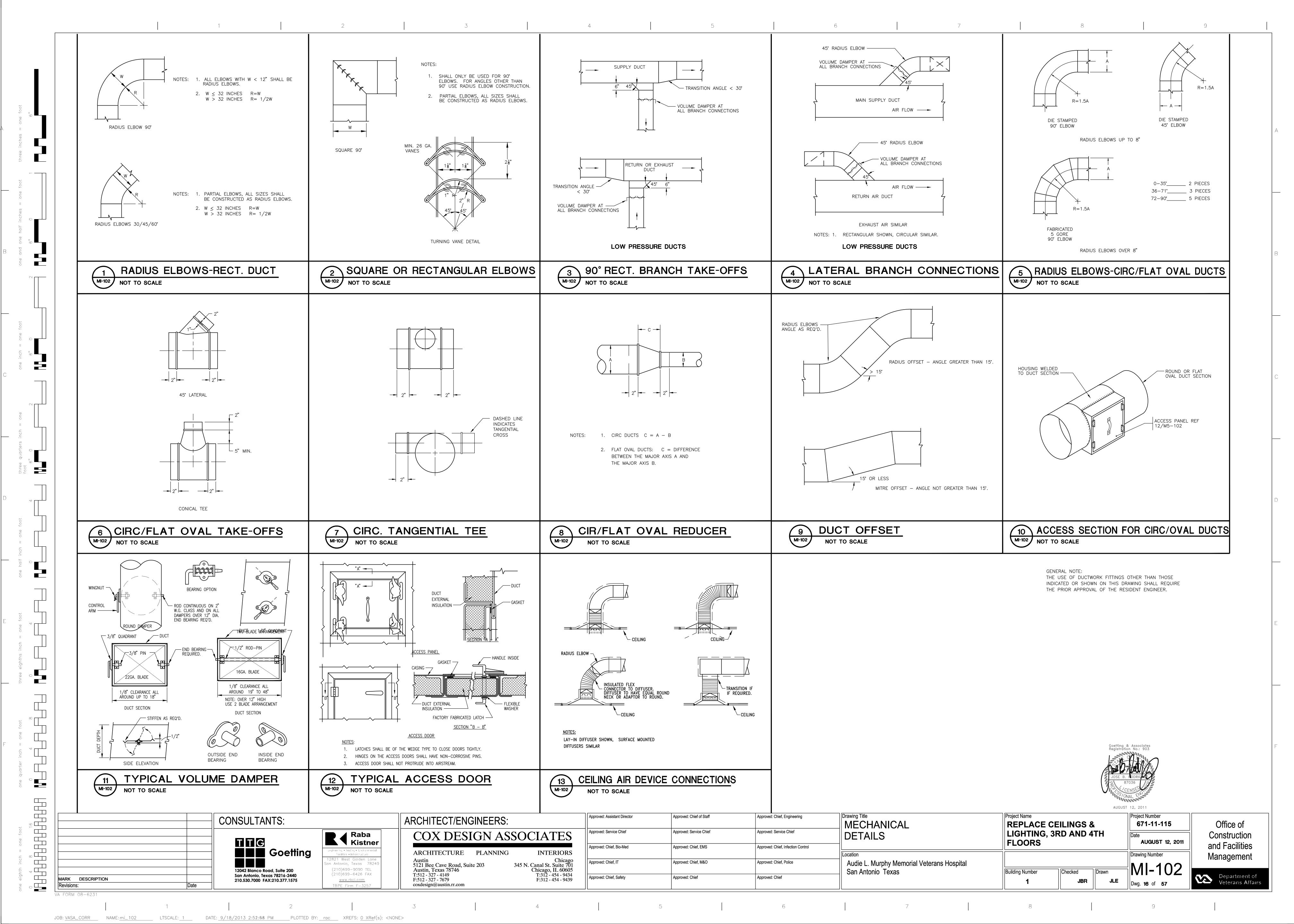
Approved: Assistant Director Approved: Chief of Staff Approved: Chief, Engineering Approved: Chief, Infection Control Audie L. Murphy Memorial Veterans Hospital San Antonio Texas

MECHANICAL REPLACE CEILINGS & **LIGHTING, 3RD AND 4TH** SYMBOLS & ABBREVIATIONS FLOORS

671-11-115 **AUGUST 12, 2011** Drawing Number **Building Number**

Office of Construction and Facilities Management

Veterans Affairs Department of



| | | | | AIR DEVICES (REFER TO PLANS F | | | | | | LOCATION, SIZE, AND FLOW) | | | | | |
|------|---|---------------|--------------|-------------------------------|------|--|--------------|-------|------|---|--------------|-------|--|--|--|
| | | SUPPLY | | | | RETURN | | | | EXHAUST | | | | | |
| MARK | TYPE | | CONSTRUCTION | NOTES | MARK | TYPE | CONSTRUCTION | NOTES | MARK | TYPE | CONSTRUCTION | NOTES | | | |
| S1-1 | SQUARE LOUVER FACE SUPPLY DIFFUSER | 1 WAY PATTERN | ALUMINUM | | R1 | SQUARE LOUVER FACE RETURN AIR DEVICE WITH OPPOSED | ALUMINUM | | E1 | SQUARE LOUVER FACE EXHAUST AIR DEVICE WITH OPPOSED | ALUMINUM | | | | |
| S1-2 | WITH EQUALIZING GRID, OPPOSED BLADE DAMPER AND SURFACE MOUNTING FLAT FRAME. | 2 WAY PATTERN | WHITE FINISH | WHITE FINISH | | BLADE DAMPER AND SURFACE MOUNTING FLAT FRAME. NECK SIZES AS SCHEDULED. WHIT | WHITE FINISH | | | BLADE DAMPER AND SURFACE MOUNTING FLAT FRAME. NECK SIZES AS SCHEDULED. | WHITE FINISH | | | | |
| S1-3 | INDIVIDUALLY ADJUSTABLE CURVED AIR DEFLECTORS TO MATCH AIR PATTERN TYPE. | 3 WAY PATTERN | | | | | | | | | | | | | |
| S1-4 | PIVOTED OR FIXED PATTERN CONTROLLERS ARE NOT ACCEPTABLE. | 4 WAY PATTERN | | | [| | | | | | | | | | |
| S1-C | NECK SIZES AS SCHEDULED. | CORNER | | | | | | | | | | | | | |
| S3-1 | SQUARE LOUVER FACE SUPPLY DIFFUSER | 1 WAY PATTERN | ALUMINUM | | R3 | DIADE DAVIDED AND CUIDEAGE MOUNTING ELAT EDAVE | ALUMINUM | | E3 | DIADE DAVIDED AND CUREICE HOUNTING FLAT EDILIE | ALUMINUM | | | | |
| S3-2 | WITH EQUALIZING GRID, OPPOSED BLADE DAMPER AND SURFACE MOUNTING FLAT FRAME. | 2 WAY PATTERN | WHITE FINISH | | | | WHITE FINISH | | | | WHITE FINISH | | | | |
| S3-3 | FACE SIZE 24x24. INDIVIDUALLY ADJUSTABLE CURVED AIR | 3 WAY PATTERN | | | | | | | | | | | | | |
| S3-4 | DEFLECTORS TO MATCH AIR PATTERN TYPE. PIVOTED OR FIXED PATTERN CONTROLLERS | 4 WAY PATTERN | | | | | | | | | | | | | |
| S3-C | ARE NOT ACCEPTABLE. NECK SIZES AS SCHEDULED. | CORNER | | | | | | | | | | | | | |
| S4-1 | COLLABE LOUIVED FACE CURRILY DIFFLICED | 1 WAY PATTERN | ALUMINUM | | R4 | R4 SQUARE LOUVER FACE RETURN AIR DEVICE WITH OPPOSED BLADE DAMPER FOR 24" X 12" LAY-IN CEILING GRID. NECK SIZES AS SCHEDULED. | ALUMINUM | | E4 | | ALUMINUM | | | | |
| S4-2 | SQUARE LOUVER FACE SUPPLY DIFFUSER WITH EQUALIZING GRID AND OPPOSED BLADE DAMPER FOR 24x12 LAY-IN CEILING GRID. | 2 WAY PATTERN | WHITE FINISH | | | | WHITE FINISH | | | | WHITE FINISH | | | | |
| S4-3 | INDIVIDUALLY ADJUSTABLE CURVED AIR DEFLECTORS TO MATCH AIR PATTERN TYPE. | 3 WAY PATTERN | | | | | | | | | | | | | |
| S4-4 | PIVOTED OR FIXED PATTERN CONTROLLERS ARE NOT ACCEPTABLE. | 4 WAY PATTERN | | | | | | | | | | | | | |
| S4-C | NECK SIZES AS SCHEDULED. | CORNER | | | | | | | | | | | | | |
| S5-1 | COLLADE LOUNED FACE CURRILY DIFFUSER | 1 WAY PATTERN | ALUMINUM | | R5 | SQUARE LOUVER FACE RETURN AIR DEVICE WITH OPPOSED BLADE | ALUMINUM | | E5 | SQUARE LOUVER FACE EXHAUST AIR DEVICE WITH OPPOSED BLADE DAMPER FOR 24" X 24" LAY-IN CEILING GRID. | ALUMINUM | | | | |
| S5-2 | SQUARE LOUVER FACE SUPPLY DIFFUSER WITH EQUALIZING GRID AND OPPOSED BLADE DAMPER FOR 24x24 LAY—IN CEILING GRID. | 2 WAY PATTERN | WHILE FINISH | WHITE FINISH | | DAMPER FOR 24" X 24" LAY—IN CEILING GRID. NECK SIZES AS SCHEDULED. | WHITE FINISH | | | NECK SIZES AS SCHEDULED. | WHITE FINISH | | | | |
| S5-3 | INDIVIDUALLY ADJUSTABLE CURVED AIR DEFLECTORS TO MATCH AIR PATTERN TYPE. | 3 WAY PATTERN | | | | | | | | | | | | | |
| S5-4 | PIVOTED OR FIXED PATTERN CONTROLLERS ARE NOT ACCEPTABLE. | 4 WAY PATTERN | | | | | | | | | | | | | |
| S5-C | NECK SIZES AS SCHEDULED. | CORNER | | | | | | | | | | | | | |

NOTE: ALL AIR DEVICES WITH EXPOSED SCREWS SHALL HAVE TAMPERPROOF HEADS.

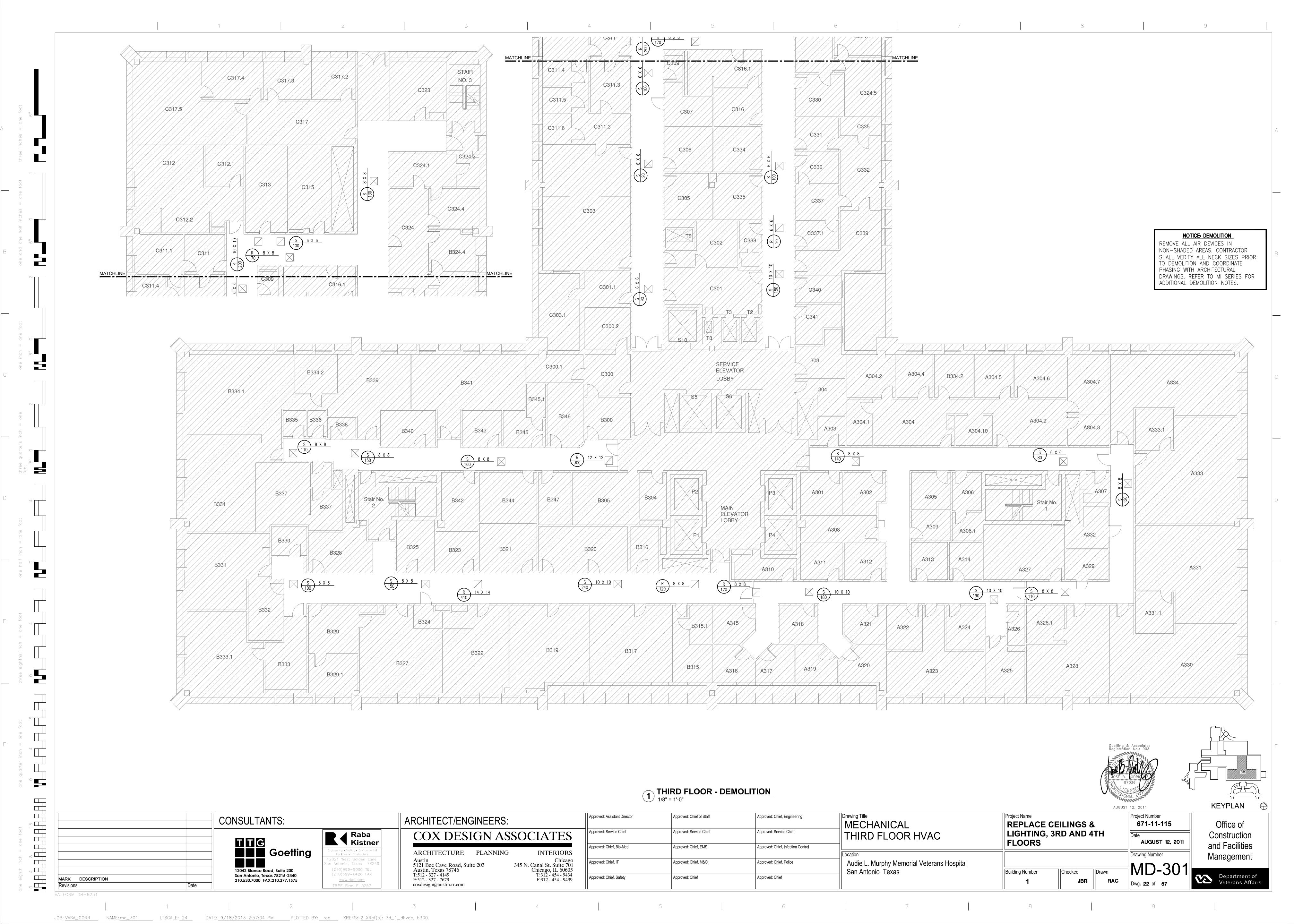
JOB: <u>VASA_CORR</u> NAME: <u>mi_103</u> LTSCALE: <u>1</u> DATE: <u>9/18/2013 2:55:01 PM</u> PLOTTED BY: <u>rac</u> XREFS: <u>0 XRef</u>(s): <NONE>

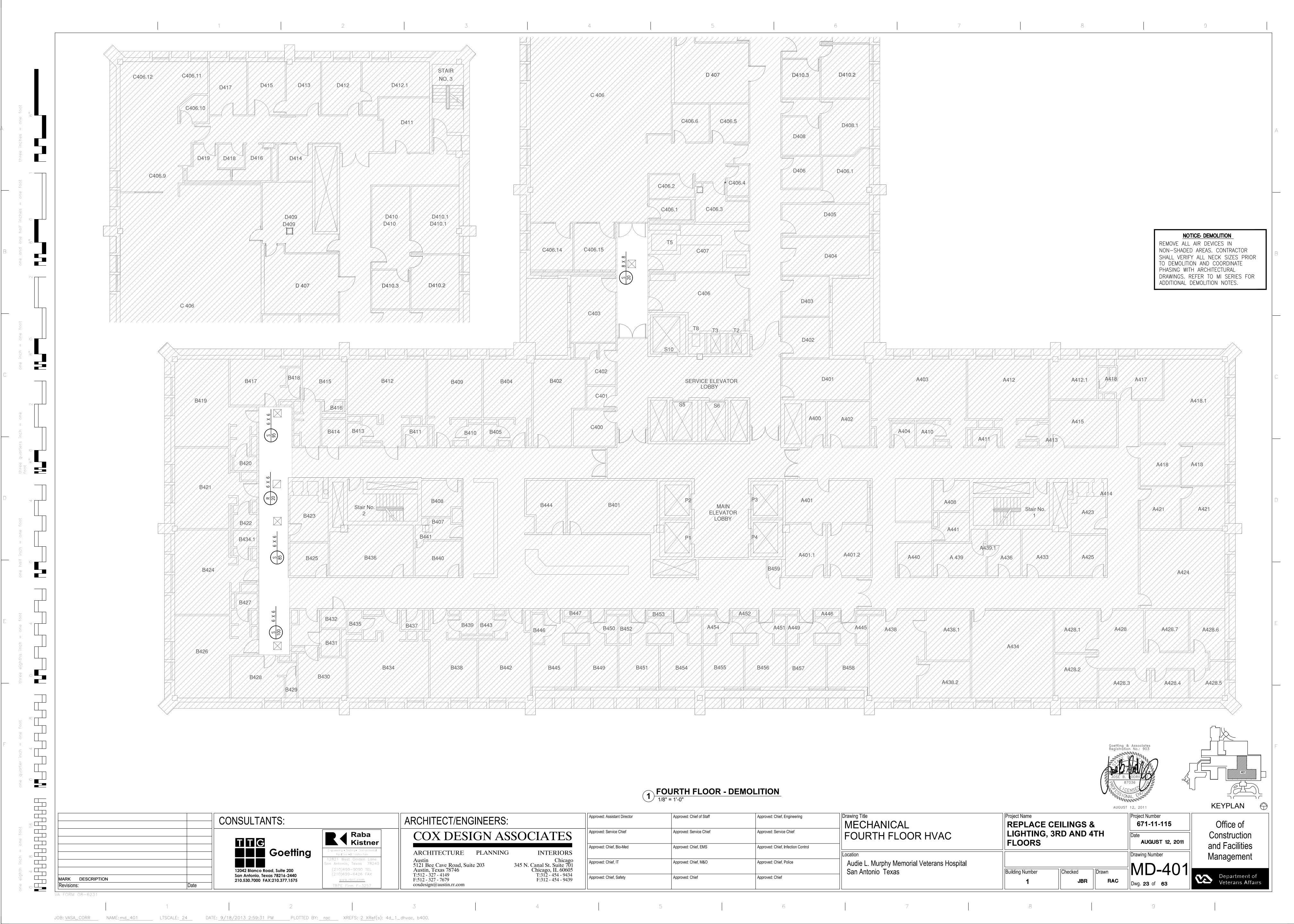


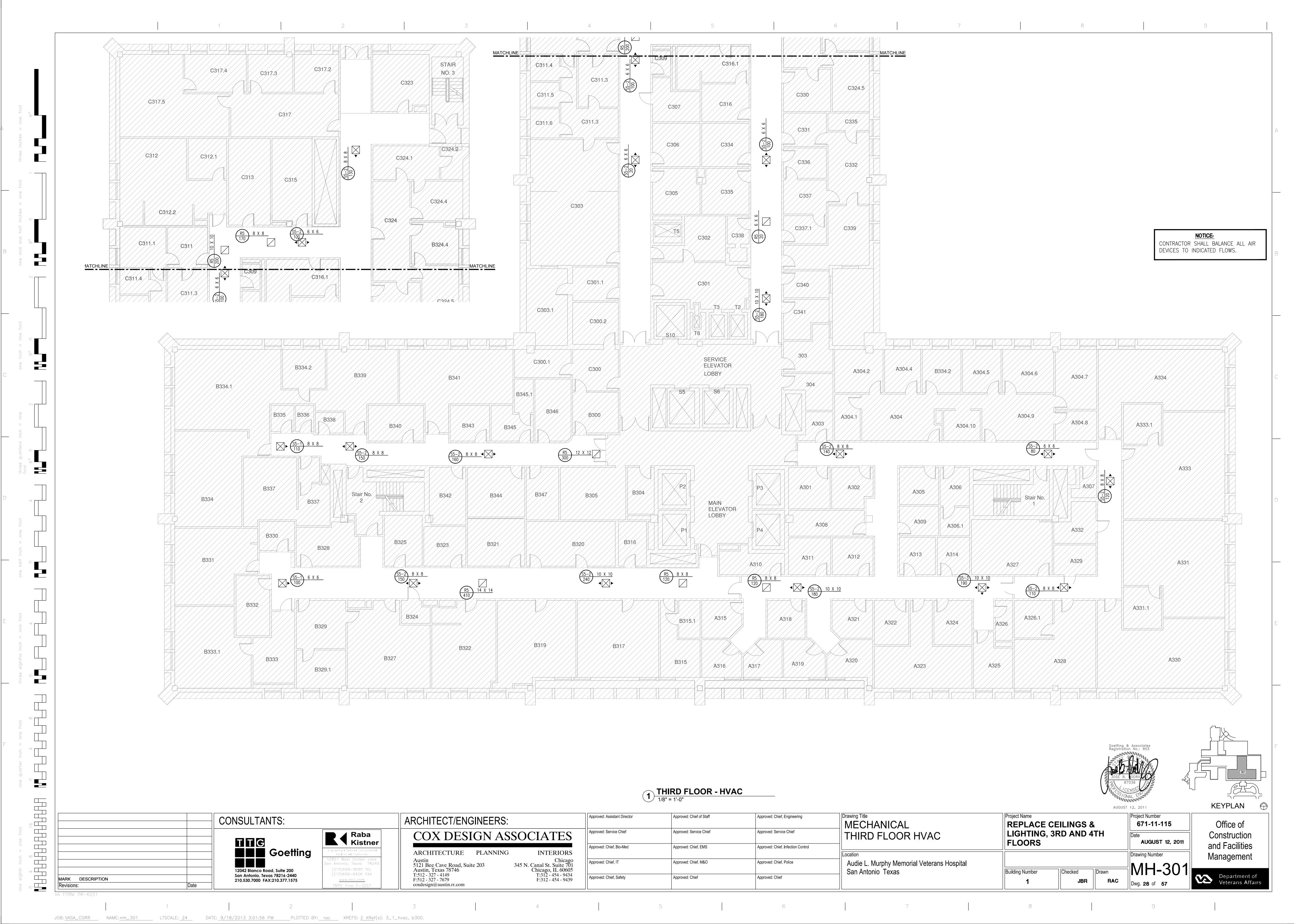
Drawing Title

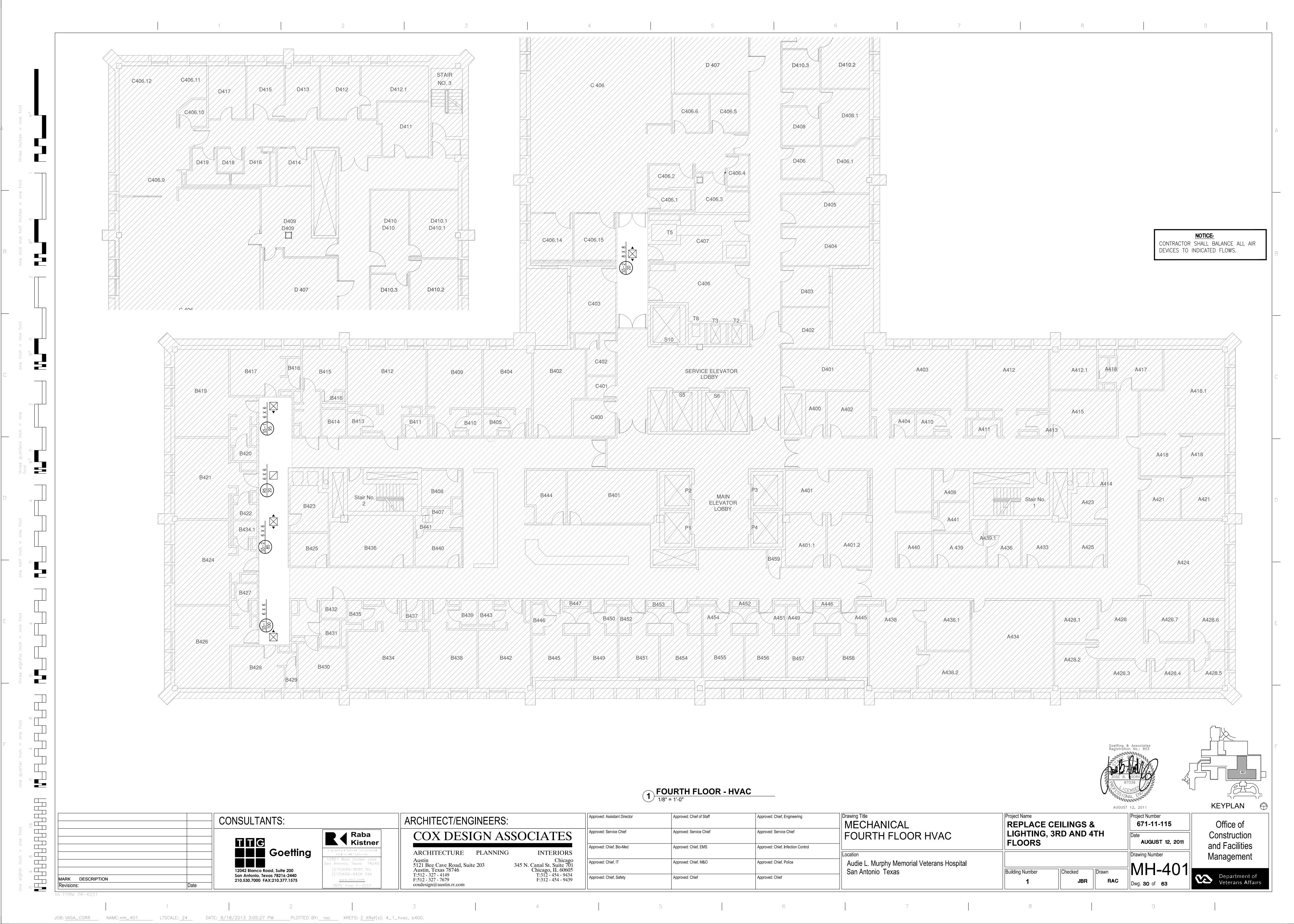
MECHANICAL Project Number Approved: Chief, Engineering Approved: Chief of Staff Approved: Assistant Director CONSULTANTS: ARCHITECT/ENGINEERS: REPLACE CEILINGS & 671-11-115 Office of LIGHTING, 3RD AND 4TH Approved: Service Chief Approved: Service Chief Approved: Service Chief MECHANICAL SCHEDULES Raba Kistner COX DESIGN ASSOCIATES Construction Goetting

12042 Plance Board Suite 200 FLOORS AUGUST 12, 2011 and Facilities Approved: Chief, EMS Approved: Chief, Bio-Med Approved: Chief, Infection Control ARCHITECTURE PLANNING **INTERIORS** Drawing Number Management Chicago 345 N. Canal St. Suite 701 Chicago, IL 60605 T:312 - 454 - 9434 F:312 - 454 - 9439 Austin
5121 Bee Cave Road, Suite 203
Austin, Texas 78746
T:512 - 327 - 4149
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coxdesign@austin.rr.com Audie L. Murphy Memorial Veterans Hospital San Antonio Texas Approved: Chief, IT Approved: Chief, M&O Approved: Chief, Police an Antonio, Texas 7824 12042 Blanco Road, Suite 200 San Antonio, Texas 78216-2440 210.530.7000 FAX:210.377.1575 (210)699-9090 TEL Building Number (210)699-6426 FAX Department of Veterans Affairs Approved: Chief, Safety Approved: Chief Approved: Chief DESCRIPTION www.rkci.com TBPE Firm F-3257









ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOL DESCRIPTION REWIRING AND DEMOLITION EXISTING CONDUIT IN PLACE - REMOVE EXISTING WIRES AND INSTALL NEW WIRES AS INDICATED. ---- EX ----- EXISTING CONDUIT AND WIRE TO REMAIN EXISTING CONDUIT AND WIRE TO BE ABANDONED OR REMOVED AS INDICATED. ———E — CONNECTION OF NEW CONDUIT TO EXISTING CONDUIT W/ APPROVED TYPE COUPLINGS- INSTALL NEW WIRES AS INDICATED. EXISTING FLUORESCENT FIXTURE EXISTING FLUORESCENT FIXTURE TO BE REMOVED EXISTING WALL MOUNTED EXIT LIGHT TO BE REMOVED

EXISTING CEILING MOUNTED EXIT LIGHT TO BE REMOVED

| SYMB | <u>OL</u> | DESCRIPTION |
|-------------|------------------------------|---|
| | LIGHTING S | YSTEM . |
| CLG. | <u>WALL</u> | |
| \bigcirc | <u> </u> | INCANDESCENT, COMPACT FLUORESCENT OR HID FIXTURE. WALL MTD. 7'-6" AFF U.O.N. |
| \otimes | \otimes - | INCANDESCENT, COMPACT FLUORESCENT OR HID FIXTURE ON EMERGENCY POWER |
| | | FLUORESCENT FIXTURE |
| \boxtimes | | FLUORESCENT FIXTURE ON EMERGENCY POWER |
| | | FLUORESCENT FIXTURE |
| | | FLUORESCENT FIXTURE ON EMERGENCY POWER. |
| | | CEILING MOUNTED EXIT LIGHT. |
| | | CEILING MOUNTED EXIT LIGHT W/ DIRECTIONAL ARROWS AS INDICATED ON PLANS. |
| | | BATTERY EMERGENCY LIGHT WITH 2 LAMPHEADS MTD. AT 7'-6" AFF. U.O.N FIXTURE TYPE 'AD' |
| | <u> </u> | KEYLESS PORCELAIN LAMP HOLDER WITH WIRE LAMP GUARD. WALL MTD. 7'-6" AFF U.O.N. |
| | GENERAL | |
| <u>CLG</u> | WALL | |
| | S | SINGLE POLE SWITCH WITH SUFFIX a,b,c ETC. INDICATES CONTROL OF FIXTURE(S) WITH SAME DESIGNATION(S). |
| | S_2 | DOUBLE POLE SWITCH |
| | S ₃ | THREE-WAY SWITCH |
| | S ₄ | FOUR-WAY SWITCH |
| | S _D | INCANDESCENT DIMMER |
| | S _{DF} | FLUORESCENT LAMP DIMMER |
| | <u></u> | JUNCTION BOX, MTD AT 1'-6" AFF (U.O.N.) |
| | | LIGHTING OR LIGHTING/POWER PANELBOARD |
| | CIRCUIT NO. IXTURE YPE | LIGHT FIXTURE CIRCUIT NUMBER AND TYPE ARE TAGGED AS SHOWN |
| | - | BRANCH CIRCUIT RUN BELOW FLOOR OR GRADE U.O.N. BRANCH CIRCUIT CONCEALED IN CEILING OR WALL U.O.N. |

| BBREV. | DESCRIPTION |
|------------------|--|
| ADO | AUTOMATIC DOOR OPENER |
| A AF | AMPERE AMPERE FRAME |
| AFF | ABOVE FINISHED FLOOR |
| AT ATS | AMPERE TRIP AUTOMATIC TRANSFER SWITCH |
| BC | BARE COPPER |
| C CB | CONDUIT CIRCUIT BREAKER |
| CC | CONTRACTOR FURNISHED |
| CKT | CONTRACTOR INSTALLED CIRCUIT |
| CCTV | CLOSED CIRCUIT T.V. |
| CLG DB | CEILING DIRECT BURIAL |
| EC | EMPTY CONDUIT |
| EG EX | EQUIPMENT GROUND EXISTING |
| EJ | EXPANSION JOINT |
| EXP, XP EMERG | EXPLOSION PROOF EMERGENCY |
| ELEC | ELECTRIC |
| EWC FA | ELECTRIC WATER COOLER |
| FACP | FIRE ALARM FIRE ALARM CONTROL PANEL |
| FCU | FAN COIL UNIT |
| FIXT FLOUR | FIXTURE FLUORESCENT |
| FSS | FUSED SAFETY SWITCH |
| FSCP GND | FLAME SAFEGUARD CONTROL CENTER GROUND |
| GEN | GENERATOR DOV |
| GTB GFI | GROUND TERMINAL BOX GROUND FAULT INTERRUPTER |
| НОА | HAND OFF AUTOMATIC |
| HH HP | HANDHOLE HORSEPOWER |
| H.P.F. | HIGH POWER FACTOR |
| HV INCAND | HIGH VOLTAGE INCANDESCENT |
| IPU | ISOLATED POWER UNIT |
| IPS JB | INTERRUPTIBLE POWER SOURCE JUNCTION BOX |
| LTS | LIGHTS |
| LTG LV | LIGHTING LOW VOLTAGE |
| MATV | MASTER ANTENNA TELEVISION |
| MCB MCC | MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER |
| MDP | MAIN DISTRIBUTION PANEL |
| MLO MH | MANHOLE |
| MT | MOUNT |
| MTD MTG HTG | MOUNTED MOUNTING HEIGHT |
| Р | POLE |
| PB PBPU | PULL BOX PREFABRICATED BEDSIDE PATIENT UNIT |
| PNL | PANEL |
| POD PTRV | POWER OPERATED DAMPER POWER TYPE ROOF VENTILATOR |
| PWR | POWER |
| RECEPT RGIP | RECEPTACLE REMOTE GROUND INDICATOR PANEL |
| RE | RESIDENT ENGINEER |
| RGS PWR | RIGID GALVANIZED STEEL POWER |
| RECEPT | RECEPTACLE |
| SIG (S.C.) | SIGNAL SPLIT CIRUIT HOMERUN |
| SS | SAFETY SWITCH |
| STA TEL | STATION TELEPHONE |
| TV | TELEVISION |
| VC | VETERANS ADMIN. FURNISHED CONTRACTOR INSTALLED |
| UH | UNIT HEATER |
| U.O.N. V | UNLESS OTHERWISE NOTED VOLTAGE |
| VSMC | VARIABLE SPEED MOTOR CONTROLLER |
| VP VV | VAPOR PROOF VETERANS ADMIN. FURNISHED |
| W | VETERANS ADMIN. INSTALLED WIRE |
| w W/ | WITH |
| WP WT | WEATHER PROOF WATER TIGHT |
| XFMR | TRANSFORMER |
| | |



CONSULTANTS:

JOB: <u>VASA_CORR</u> NAME: <u>ei_101</u> LTSCALE: <u>0.5</u> DATE: <u>9/18/2013 3:09:14 PM</u> PLOTTED BY: <u>rac</u> XREFS: <u>0 XRe</u>f(s): <NONE>

9 4 8

MARK DESCRIPTION Revisions:



| ARCHITECT/ENGINEERS: | | | | | | |
|--|----------|---|--|--|--|--|
| COX DES | IGN ASSO | OCIATES | | | | |
| ARCHITECTURE Austin 5121 Bee Cave Road, Suite 203 Austin, Texas 78746 T:512 - 327 - 4149 F:512 - 327 - 7679 coxdesign@austin.rr.com | PLANNING | INTERIORS Chicago 345 N. Canal St. Suite 701 Chicago, IL 60605 T:312 - 454 - 9434 F:312 - 454 - 9439 | | | | |

| Approved: Assistant Director | Approved: Chief of Staff | Approved: Chief, Engineering | Drawing Title ELECT |
|------------------------------|--------------------------|------------------------------------|----------------------------|
| Approved: Service Chief | Approved: Service Chief | Approved: Service Chief | SYMBO |
| Approved: Chief, Bio-Med | Approved: Chief, EMS | Approved: Chief, Infection Control | Location |
| Approved: Chief, IT | Approved: Chief, M&O | Approved: Chief, Police | Audie L. M San Antoni |
| Approved: Chief, Safety | Approved: Chief | Approved: Chief | San Antoni |

| ELECTRICAL SYMBOLS AND ABBREVIATIONS | Project Name REPLACE CEILINGS & LIGHTING, 3RD AND 4TH FLOORS | |
|--|--|------|
| Audie L. Murphy Memorial Veterans Hospital San Antonio Texas | Building Number Checked | Drav |

Project Number 671-11-115 AUGUST 12, 2011 Drawing Number

Office of Construction and Facilities Management



ELECTRICAL GENERAL NOTES & DEMOLITION NOTES

GENERAL ELECTRICAL NOTES:

(APPLY TO ALL EL SERIES SHEETS OF ELECTRICAL DRAWINGS)

- G1 FINAL LOCATIONS AND ARRANGEMENTS OF ALL LIGHTING FIXTURES AND CEILING TYPES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLANS AND ARCHITECTURAL SCHEDULES, SECTIONS AND DETAILS.
- G2 EXTEND EXISTING CIRCUIT WIRING TO NEW LIGHT FIXTURES AS SHOWN ON EL SERIES OF ELECTRICAL DRAWINGS. EXISTING CIRCUITS SHALL BE EXTENDED FROM NEAREST CONNECTION NODE (REFER TO DEMOLITION NOTES 2.0 AND 2.1) TO NEW LIGHT FIXTURE WITH NEW CONDUIT AND WIRES. CONTRACTOR SHALL INSTALL NEW WIRING AS SPECIFIED IN DIVSION 26 OF PROJECT SPECIFICATIONS.
- G3 FOR NEW EXIT LIGHTS REPLACING OLD EXIT LIGHTS IN SAME LOCATION, CONNECT NEW EXIT LIGHT TO EXISTING CIRCUIT WIRING. FOR NEW EXIT LIGHTS REPLACING OLD EXIT LIGHTS, BUT RELOCATED TO A NEW LOCATION, EXTEND EXISTING LIFE SAFETY CIRCUIT WIRING TO NEW LOCATION AND CONNECT TO NEW EXIT LIGHT AS REQUIRED. CONTRACTOR SHALL INSTALL NEW WIRING AS SPECIFIED IN DIVISION 26 OF PROJECT SPECIFICATIONS.
- G4 FINAL CONNECTION TO RECESSED FLUORESCENT FIXTURE SHALL BE WITH 1/2" FLEXIBLE CONDUIT WITH NUMBER OF CONDUCTORS AS FOLLOWS: A. FIXTURES WITH NON-DIMMED BALLAST - 2 #12 (0,N). & 1 #12 GND. B. FIXTURES WITH DIMMING BALLASTS - 3 #12 (CONTROL, CONTROL, N) & 1 #12 GND.
- G5 PROVIDE NEW DIMMING SWITCHES AT NURSE'S STATIONS AS INDICATED ON DRAWINGS.
- G6 ALL EQUIPMENT AND MATERIALS ARE NEW UNLESS INDICATED AS EXISTING.
- G7 MINIMUM BENDING RADIUS OF CURRENT CARRYING CONDUCTOR SHALL NOT BE LESS THAN MANUFACTURER'S RECOMMENDATIONS, 1PCEA 5-66-524 AND NEMA WG-7.
- G8 THE CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING AND LIGHT FIXTURE LOCATIONS WITH HVAC, PLUMBING AND SPRINKLER CONTRACTORS TO AVOID CONFLICTS WITH DIFFUSERS, LIGHT FIXTURES, PIPING, SPRINKLER HEADS, ETC.

JOB: <u>VASA_CORR</u> NAME: <u>ei_102</u> LTSCALE: <u>0.5</u> DATE: <u>9/18/2013 3:10:50 PM</u> PLOTTED BY: <u>rac</u> XREFS: <u>0 XRef(s)</u>: <NONE>

- G9 CONDUCTORS FOR 120 VOLT BRANCH CIRCUITS OF MORE THAN 50 FEET IN LENGTH SHALL BE A MINIMUM OF NO. 10 AWG. CONDUCTORS FOR 277 VOLT BRANCH CIRCUITS OF MORE THAN 115 FEET IN LENGTH SHALL BE A MINIMUM OF NO. 10 AWG. CONDUCTORS FOR 277 VOLT BRANCH CIRCUITS SERVING EMERGENCY EGRESS LIGHTING AND EXIT LIGHT FIXTURE SHALL BE A MINIMUM OF NO. 10 AWG.
- G10 <u>FIRE ALARM SYSTEM</u>. REFER TO FIRE ALARM PROTECTION DRAWINGS (XX—FPX.XX SERIES) FOR FIRE ALARM SYSTEM.

ELECTRICAL DEMOLITION NOTES: (APPLY TO ALL ED SERIES SHEETS OF ELECTRICAL DRAWINGS)

- 1.0 THE CONTRACTOR SHALL VERIFY LOCATION AND QUANTITY OF ITEMS TO BE REMOVED. AS NO ALLOWANCE WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIRITY WITH THESE DETAILS.
- 2.0 CIRCUIT WIRING CONNECTED TO EXISTING LIGHT FIXTURES AND EXIT LIGHTS BEING REMOVED SHALL REMAIN AND BE REUSED FOR RECONNECTION TO NEW FIXTURES AND EXIT LIGHTS.
 - 2.1 WIRES OF UNUSED EXISTING LIGHT CIRCUITS THAT REMAIN AFTER DEMOLITION SHALL BE CAPPED AND MARKED WITH PANEL AND CIRCUIT NUMBER AT NEAREST CONNECTION NODE. CAPPED WIRES SHALL BE LEFT PROTECTED WITHIN A J-BOX OR OTHER ENCLOSURE.
- 3.0 ELECTRICAL CIRCUITS WITH A PORTION OF THE LOAD REMOVED SHALL REMAIN ACTIVE AND OPERATIONAL.
- 4.0 HOLES AND DAMAGED AREAS CAUSED BY REMOVAL OF ANY OF THE ABOVE ITEMS AND WHICH ARE NOT CONCEALED BY NEW CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING SURFACES. IN ADDITION, OPENINGS CREATED BY THE REMOVAL OF THESE ITEMS THROUGH FIRE RISISTANCE RATED WALLS SHALL BE FIRE STOPPED.



Project Number Approved: Chief of Staff Approved: Chief, Engineering Approved: Assistant Director ARCHITECT/ENGINEERS: CONSULTANTS: ELECTRICAL REPLACE CEILINGS & 671-11-115 Office of LIGHTING, 3RD AND 4TH Approved: Service Chief Approved: Service Chief Approved: Service Chief Raba Kistner COX DESIGN ASSOCIATES SYMBOLS AND ABBREVIATIONS Construction TTG FLOORS **AUGUST 12, 2011** and Facilities Approved: Chief, Bio-Med Approved: Chief, Infection Control Approved: Chief, EMS **■■■** Goetting ARCHITECTURE **PLANNING INTERIORS** Drawing Number Management Chicago 345 N. Canal St. Suite 701 Chicago, IL 60605 T:312 - 454 - 9434 F:312 - 454 - 9439 Austin 5121 Bee Cave Road, Suite 203 Austin, Texas 78746 T:512 - 327 - 4149 Audie L. Murphy Memorial Veterans Hospital Approved: Chief, IT Approved: Chief, M&O Approved: Chief, Police San Artonio, Texas - 78249 San Antonio Texas (210)699-9090 TEL 12042 Blanco Road, Suite 200 **Building Number** (210)699-6426 FAK San Antonio, Texas 78216-2440 Department of Veterans Affairs Department of Approved: Chief Approved: Chief, Safety Approved: Chief DESCRIPTION F:512 - 327 - 7679 210.530.7000 FAX:210.377.1575 coxdesign@austin.rr.com

RECESSED, 2-LAMP, DIRECT-INDIRECT LUMINAIRE: FOR HARD CEILING MOUNTING WITH CLEAR PRISMATIC LENS PANEL. NOMINAL 2' X 4' IN SIZE AND APPROXIMATELY RECESSED, 3—LAMP, DIRECT—INDIRECT LUMINAIRE: FOR LAY—IN GRID MOUNTING WITH CLEAR PRISMATIC LENS PANEL. NOMINAL 2' X 4' IN SIZE AND APPROXIMATELY RECESSED, 2-LAMP, DIRECT-INDIRECT LUMINAIRE: FOR LAY-IN GRID MOUNTING WITH RECESSED, 3-LAMP, DIRECT-INDIRECT LUMINAIRE: FOR LAY-IN GRID MOUNTING WITH RECESSED, 4-LAMP, CLEAN ROOM TROFFER: FOR LAY-IN GRID MOUNTING. ENCLOSED AND GASKETED TO MAINTAIN CEILING INTEGRITY AND PROTEC AGAINST INFILTRATION CLEAR PRISMATIC LENS PANEL. NOMINAL 2' X 4' IN SIZE AND APPROXIMATELY CLEAR PRISMATIC LENS PANEL. NOMINAL 2' X 4' IN SIZE AND APPROXIMATELY OF PARTICLES AND AIRBORNE BACTERIA. LAY-IN GRID MOUNTING. NOMINAL 2' X 4' 3-1/4 INCHES DEEP. 3-1/4 INCHES DEEP. 3-1/4 INCHES DEEP. AND APPROXIMATELY 3-3/4" DEEP. HOUSING: DIE FORMED CODE GAUGE COLD ROLLED STEEL; APPROPRIATE HARDWARE FOR A HOUSING: DIE FORMED CODE GAUGE COLD ROLLED STEEL; APPROPRIATE HARDWARE FOR A HOUSING: DIE FORMED CODE GAUGE COLD ROLLED STEEL; APPROPRIATE HARDWARE FOR A HOUSING: DIE FORMED CODE GAUGE COLD ROLLED STEEL; APPROPRIATE HARDWARE FOR A HOUSING: DIE FORMED CODE GAUGE COLD ROLLED STEEL; HOLE FREE EMBOSSED HOUSING MINIMUM OF (4) POINTS OF SUPPORT IN APPLICABLE CEILING SYSTEM; WIRING AND MINIMUM OF (4) POINTS OF SUPPORT IN APPLICABLE CEILING SYSTEM; WIRING AND MINIMUM OF (4) POINTS OF SUPPORT IN APPLICABLE CEILING SYSTEM; WIRING AND MINIMUM OF (4) POINTS OF SUPPORT IN APPLICABLE CEILING SYSTEM; WIRING AND WITH FULL LENGTH STIFFENERS FOR ADDED STRENGTH. END PLATES SEALED FOR AIR-BALLAST ACCÈSSIBLE FROM BELOW; SUPPORT CLIPS PROVIDED FOR WIRING; SEPARATE BALLAST ACCÈSSIBLE FROM BELOW; SUPPORT CLIPS PROVIDED FOR WIRING; SEPARATE BALLAST ACCÈSSIBLE FROM BELOW; SUPPORT CLIPS PROVIDED FOR WIRING; SEPARATE BALLAST ACCÈSSIBLE FROM BELOW; SUPPORT CLIPS PROVIDED FOR WIRING; SEPARATE TIGHT CONSTRUCTION. CAPTIVE NON-TURNING STUD FOR FIXTURE GROUNDING. REFLECTOR: HIGH REFLECTANCE BAKED MATTE WHITE ENAMEL FINISH. SHIELDING: POSITIVELY RETAINED FROSTED ACRYLIC PROFILE LENES. SHIELDING: #19 PATTERN ACRYLIC LENES, 0.156" NOMINAL THICKNESS. FINISHES: ELECTROSTATICALLY APPLIED BAKED WHITE POLYESTER POWDER ENAMEL FINISH. FINISHES: DURABLE COLD ROLLED STEEL WITH MULTISTAGE, IRON PHOSPHATE PRETREATMENT FINISHES: DURABLE COLD ROLLED STEEL WITH MULTISTAGE, IRON PHOSPHATE PRETREATMENT FINISHES: DURABLE COLD ROLLED STEEL WITH MULTISTAGE, IRON PHOSPHATE PRETREATMENT FINISHES: DURABLE COLD ROLLED STEEL WITH MULTISTAGE, IRON PHOSPHATE PRETREATMENT AND WHITE ENAMEL FINISH TO ENSURE MAXIMUM BONDING AND RUST INHIBITIONE. AND WHITE ENAMEL FINISH TO ENSURE MAXIMUM BONDING AND RUST INHIBITIONE. AND WHITE ENAMEL FINISH TO ENSURE MAXIMUM BONDING AND RUST INHIBITIONE. AND WHITE ENAMEL FINISH TO ENSURE MAXIMUM BONDING AND RUST INHIBITIONE. MINIMUM REFLECTANCE 90%. IRON PHOSPHATE COATING WITH RUST INHIBITOR. HINGING/LATCHING: TWO SLIDE-LATCHES WITH SAFETY SCREWS TO SECURE LENS FRAME IN LAMPS: T8 FLUORESCENT LAMPS AS SPECIFIED. <u>LAMPS</u>: T8 FLUORESCENT LAMPS AS SPECIFIED. LAMPS: T8 FLUORESCENT LAMPS AS SPECIFIED. <u>LAMPS</u>: T8 FLUORESCENT LAMPS AS SPECIFIED. CLOSED POSITION. LENS FRAME HINGES REMOVABLE WITHOUT THE USE OF TOOLS. TIGHT CONSTRUCTION. BALLAST: TWO-LAMP, HPF, ELECTRONIC TYPE AS SPECIFIED. BALLAST: THREE-LAMP, HPF, ELECTRONIC DIMMING TYPE AS SPECIFIED. BALLAST: TWO-LAMP, HPF, ELECTRONIC TYPE AS SPECIFIED. BALLAST: THREE-LAMP, HPF, ELECTRONIC TYPE AS SPECIFIED. GASKET: ONE PIECE CONTINUOUS GASKET TO SEAL LENS TO DOOR FRAME. ADDITIONAL GASKETING SEALS DOOR TO HOUSING. <u>LAMPS</u>: T8 FLUORESCENT LAMPS AS SPECIFIED. BALLAST: (2) TWO-LAMP BALLAST, HPF, ELECTRONIC TYPE AS SPECIFIED. 1 FIXTURE TYPE 'A1' DETAIL 2 FIXTURE TYPE 'A1A' DETAIL 3 FIXTURE TYPE 'A2' DETAIL 4 FIXTURE TYPE 'A2D' DETAIL 5 FIXTURE TYPE 'A3' DETAIL EI103 / NOT TO SCALE EHO3 / NOT TO SCALE (EI103) NOT TO SCALE EI103 / NOT TO SCALE (EI103 / NOT TO SCALE 6-1/2" 6" 6" RECESSED, 2—LAMP, DIRECT—INDIRECT LUMINAIRE: FOR LAY—IN GRID MOUNTING WITH CLEAR PRISMATIC LENS PANEL. NOMINAL 2' X 2' IN SIZE AND APPROXIMATELY RECESSED, 3-LAMP, PARABOLIC LUMINAIRE: FOR LAY-IN GRID MOUNTING WITH SILVER, SEMI-SPECULAR LOUVER FINISH, 9 CELL, 6 -5/8 INCHES DEEP. RECESSED LENSED DOWNLIGHT LUMINAIRE: FOR CEILING MOUNTED WITH CLEAR PRISMATIC RECESSED LENSED DOWNLIGHT LUMINAIRE: FOR CEILING MOUNTED WITH CLEAR PRISMATIC LENS PANEL. NOMINAL 6" DIAMETER AND APPROXIMATELY 6-1/2" DEEP. LENS PANEL. NOMINAL 6" DIAMETER AND APPROXIMATELY 6-1/2" DEEP. 3-1/4 INCHES DEEP. HOUSING: DIE FORMED CODE GAUGE COLD ROLLED STEEL; APPROPRIATE HARDWARE FOR A HOUSING: DIE FORMED CODE GAUGE COLD ROLLED STEEL; APPROPRIATE HARDWARE FOR A HOUSING: ONE PIECE PRECISION DIE CAST ALUMINUM WITH 1-1/2 INCH DEEP COLLAR; HOUSING: ONE PIECE PRECISION DIE CAST ALUMINUM WITH 1-1/2 INCH DEEP COLLAR; MINIMUM OF (4) POINTS OF SUPPORT IN APPLICABLE CEILING SYSTEM; WIRING AND MINIMUM OF (4) POINTS OF SUPPORT IN APPLICABLE CEILING SYSTEM; WIRING AND UNIVERSAL MOUNTING BRACKET CAPABLE OF ACCEPTING 1/2 INCH EMT, C CHANNEL UNIVERSAL MOUNTING BRACKET CAPABLE OF ACCEPTING 1/2 INCH EMT, C CHANNEL BALLAST ACCESSIBLE FROM BELOW; SUPPORT CLIPS PROVIDED FOR WIRING; SEPARATE BALLAST ACCESSIBLE FROM BELOW; SUPPORT CLIPS PROVIDED FOR WIRING; SEPARATE T BAR FASTENERS, AND BAR HANGERS; ADJUSTABLE UP TO 5 INCHES FROM ABOVE F BAR FASTENERS, AND BAR HANGERS; ADJUSTABLE UP TO 5 INCHES FROM ABOVE CAPTIVE NON-TURNING STUD FOR FIXTURE GROUNDING. CAPTIVE NON-TURNING STUD FOR FIXTURE GROUNDING. REFLECTOR: HIGH REFLECTANCE BAKED MATTE WHITE ENAMEL FINISH. REFLECTOR: NONE REFLECTOR: CLEAR ALZAK REFLECTOR. REFLECTOR: CLEAR ALZAK REFLECTOR. SHIELDING: POSITIVELY RETAINED FROSTED ACRYLIC PROFILE LENES. SHIELDING: NONE FINISHES: LOW IRIDESCENT FINISH. FINISHES: LOW IRIDESCENT FINISH. LAMPS: 32-WATT COMPACT FLUORESCENT LAMP AS SPECIFIED. LAMPS: 32-WATT COMPACT FLUORESCENT LAMP AS SPECIFIED. FINISHES: SEMI-SPECULAR FINISHES: DURABLE COLD ROLLED STEEL WITH MULTISTAGE, IRON PHOSPHATE PRETREATMENT AND WHITE ENAMEL FINISH TO ENSURE MAXIMUM BONDING AND RUST INHIBITIONE. BALLAST: ONE-LAMP, RAPID START ELECTRONIC TYPE AS SPECIFIED. BALLAST: ONE-LAMP, RAPID START ELECTRONIC DIMMING TYPE AS SPECIFIED. <u>LAMPS</u>: T8 FLUORESCENT LAMPS AS SPECIFIED. <u>LAMPS</u>: T8 FLUORESCENT LAMPS AS SPECIFIED. BALLAST: TWO-LAMP, HPF, ELECTRONIC TYPE AS SPECIFIED. <u>BALLAST</u>: ELECTRONIC TYPE AS SPECIFIED. 6 FIXTURE TYPE 'B1' DETAIL \FIXTURE TYPE 'B2' & 'B2D' DETAIL 8 FIXTURE TYPE 'D1' DETAIL 9 FIXTURE TYPE 'D1D' DETAIL EI103 NOT TO SCALE EI103 NOT TO SCALE E1103 NOT TO SCALE EI103 NOT TO SCALE FIXTURE SCHEDULE MIN. | COLOR | MIN. NO. | WATTS | LUMENS | TEMP DESCRIPTION $\langle 2 \rangle$ NOTES KEYED NOTES: (THIS SHEET ONLY) AMPS. 9'-4" | 120/277 | 72 EI-103 REC F32T8 2 X 4 2-LAMP DIRECT-INDIRECT FLUORESCENT W/ $\langle 1 \rangle$ all fixture dimensions are nominal. FROSTED ACRYLIC PROFILE LENS, FOR GRID MTG. A1A 2 EI-103 REC 9'-4" 120/277 72 F32T8 2 2 X 4 2-LAMP DIRECT-INDIRECT FLUORESCENT W/ 2 ALL BALLASTS FOR FLUORESCENT LAMPS SHALL BE NEMA PREMIUM FROSTED ACRYLIC PROFILE LENS, FOR GRID MTG. SINGLE FACE EXIT LIGHT ('X1') ELECTRONIC TYPE. A2 3 EI-103 REC 9'-4" 120/277 86 F32T8 3 2 X 4 3-LAMP DIRECT-INDIRECT FLUORESCENT W/ DOUBLE FACE EXIT LIGHT ('X2') $\langle 3 \rangle$ ELECTRONIC DIMMING BALLASTS SHALL BE AS RECOMMENEDED BY FROSTED ACRYLIC PROFILE LENS, FOR GRID MTG. MANUFACTURER OF WALL MOUNTED DIMMER. 9'-4" 120/277 102 2 X 4 3-LAMP DIRECT-INDIRECT FLUORESCENT W/ DIMMING A2D 4 EI-103 REC F32T8 HOUSING AND CANOPY: CAST ALUMINUM OR 20GA STEEL. FROSTED ACRYLIC PROFILE LENS, FOR GRID MTG. | BALLAST | \(\lambda \) \langle 4 angle provide (1) two-lamp ballasts with 1.18 b.f. in each luminaire FACEPLATE: SINGLE OR DOUBLE. NFPA COMPLIANT KNOCKOUT CHEVRONS. 5 EI-103 REC 9'-4" | 120/277 | 160 F32T8 4 2 X 4 4-LAMP CLEAN ROOM TROFFER W/ 5 PROVIDE (1) TWO-LAMP BALLAST AND (1) ONE-LAMP BALLAST WITH .87 PRISMATIC LENS, FOR GRID MTG. HOUSING COLOR: STEEL HOUSING SHALL BE BAKED ENAMEL OVER WHITE PRIMER. B.F. IN EACH LUMINAIRE FOR DUAL LEVEL SWITCHING SCHEME. 6 EI-103 REC 9'-4" 120/277 37 F17T8 2 X 2E 2-LAMP DIRECT-INDIRECT FLUORESCENT W INSCRIPTION PANEL: CAST OR STAMPED ALUMINUM, STENCILED W/ 6 IN. LETTERS, (6) PROVIDE (2) TWO-LAMP BALLASTS WITH 1.38 B.F. IN EACH LUMINAIRE FROSTED ACRYLIC PROFILE LENS, FOR GRID MTG. AND RED COLOR STABLE PLASTIC. 9'-4" 120/277 37 6 | EI-103 | REC F17T8 3 2 X 2 2-LAMP FLUORESCENT W/ $\langle 7 \rangle$ provide flange for hard ceiling installation. <u>LAMPS</u>: LED RATED FOR MIN. 25YRS. <u>MAX. TOTAL WATTS</u>: 1 WATT OR LESS. 9 CELL PARABOLIC LOUVERS, FOR GRID MTG. B2D 6 EI-103 REC 9'-4" 120/277 37 F17T8 3 2 X 2 2-LAMP FLUORESCENT W/ VOLTAGE: DUAL RATED FOR USE ON 120V OR 277V AC $\langle 8 \rangle$ ALL EXIT LIGHTS SHALL BE CEILING MOUNTED. 9 CELL PARABOLIC LOUVERS, FOR GRID MTG. 7 EI-103 REC 9'-4" 120/277 44 PLT32W/ 1 6" DIAMETER COMPACT FLUORESCENT DOWNLIGHT W/ PRISMATIC LENS, FOR CEILING MTG. $\langle 9 \rangle$ provide (1) three-lamp ballasts with 1.18 b.f. in each luminaire. D1D 8 EI-103 REC 6" DIAMETER COMPACT FLUORESCENT DOWNLIGHT 10 FIXTURE TYPE 'X' DETAIL W/ PRISMATIC LENS, FOR CEILING MTG. BALLAST \ NOT TO SCALE El103 DIE-CAST ALUMINUM LED EXIT LIGHT EI-103 SURFACE VARIES 0.94 120/277 | 14 LOW ENERGY CONSUMPTION **Drawing Title** Approved: Assistant Director Approved: Chief of Staff Approved: Chief, Engineering CONSULTANTS: ARCHITECT/ENGINEERS: ELECTRICAL REPLACE CEILINGS & Approved: Service Chief Approved: Service Chief Approved: Service Chief Raba Kistner COX DESIGN ASSOCIATES LIGHTING DETAILS TTG FLOORS Approved: Chief, Bio-Med Approved: Chief, EMS Approved: Chief, Infection Control **■■■** Goetting **PLANNING** ARCHITECTURE **INTERIORS** Chicago 345 N. Canal St. Suite 701 Austin 5121 Bee Cave Road, Suite 203 Austin, Texas 78746 T:512 - 327 - 4149 Audie L. Murphy Memorial Veterans Hospital Approved: Chief, IT Approved: Chief, M&O Approved: Chief, Police ar Antonio, Texas 7824 (210)699-9090 TEL San Antonio Texas 12042 Blanco Road, Suite 200 Building Number (210)699-6426 FAX San Antonio, Texas 78216-2440

Falsa Cont Project Number 671-11-115

F:312 - 454 - 9439

JOB: <u>VASA_CORR</u> NAME: <u>ei_103</u> LTSCALE: <u>0.5</u> DATE: <u>9/18/2013 3:12:53 PM</u> PLOTTED BY: <u>rac</u> XREFS: <u>0 XRef(s)</u>: <NONE>

210.530.7000 FAX:210.377.1575

DESCRIPTION

Chicago, IL 60605 T:312 - 454 - 9434 Approved: Chief, Safety

Approved: Chief Approved: Chief LIGHTING, 3RD AND 4TH

AUGUST 12, 2011 Drawing Number

Office of Construction and Facilities Management

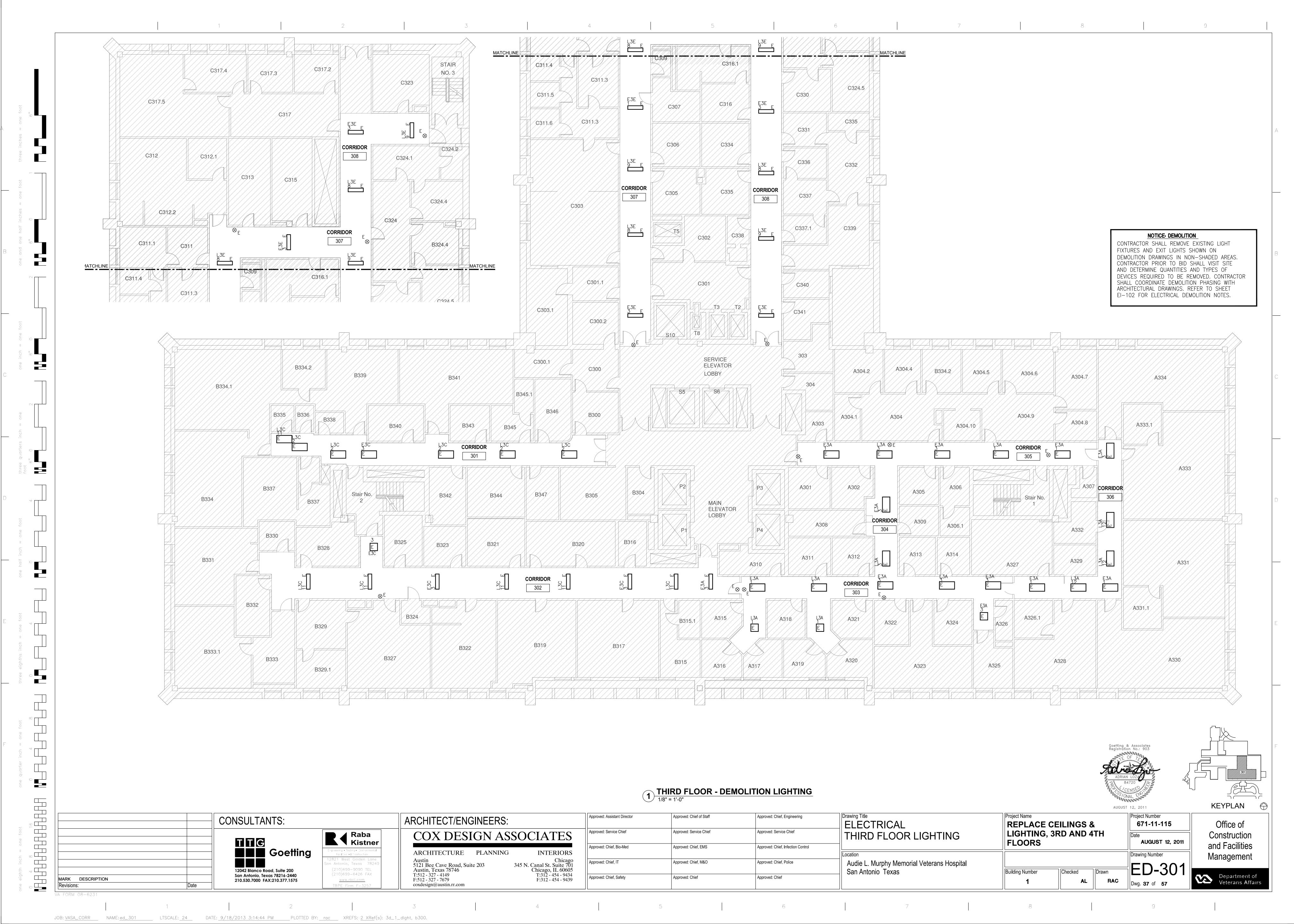
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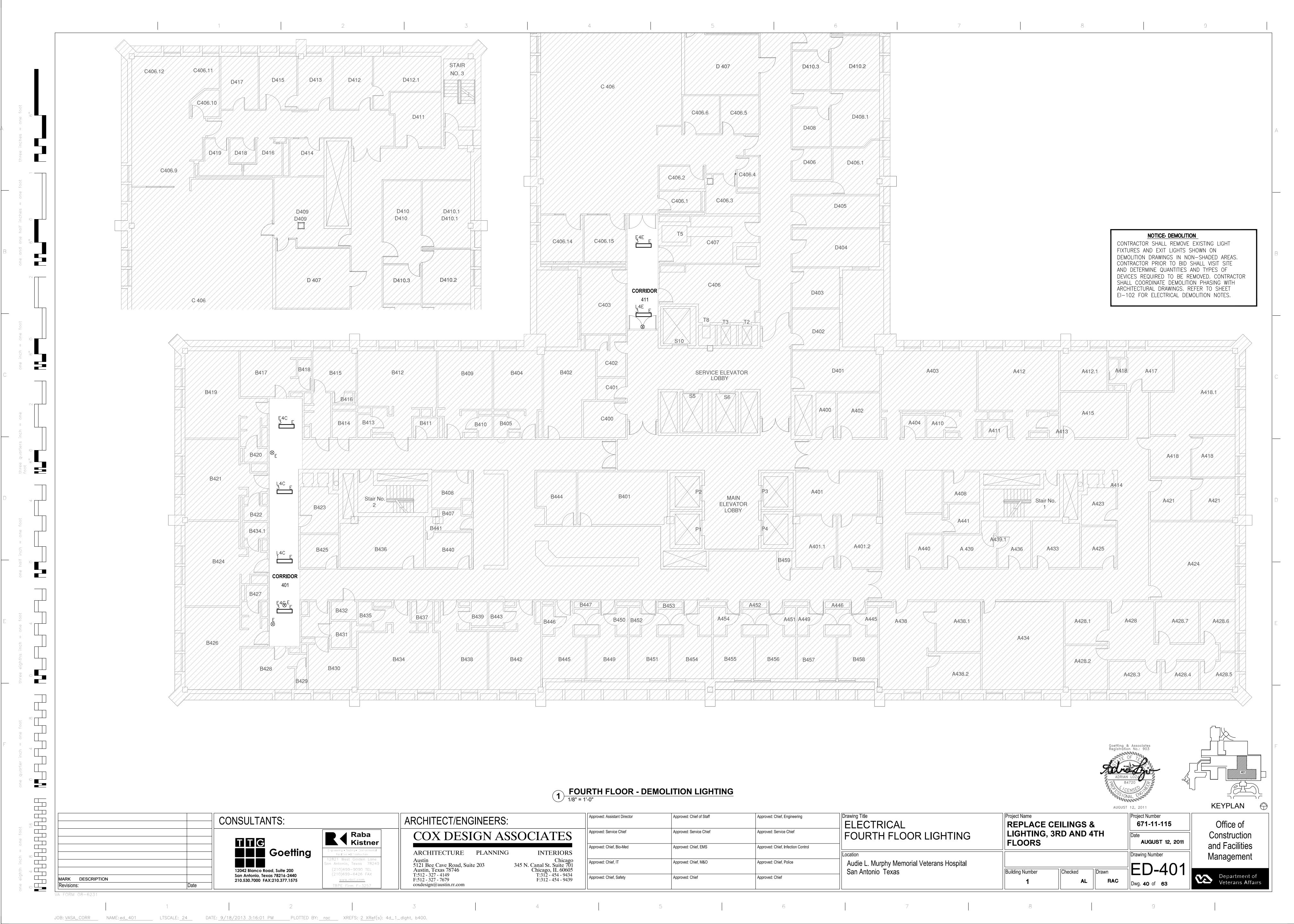
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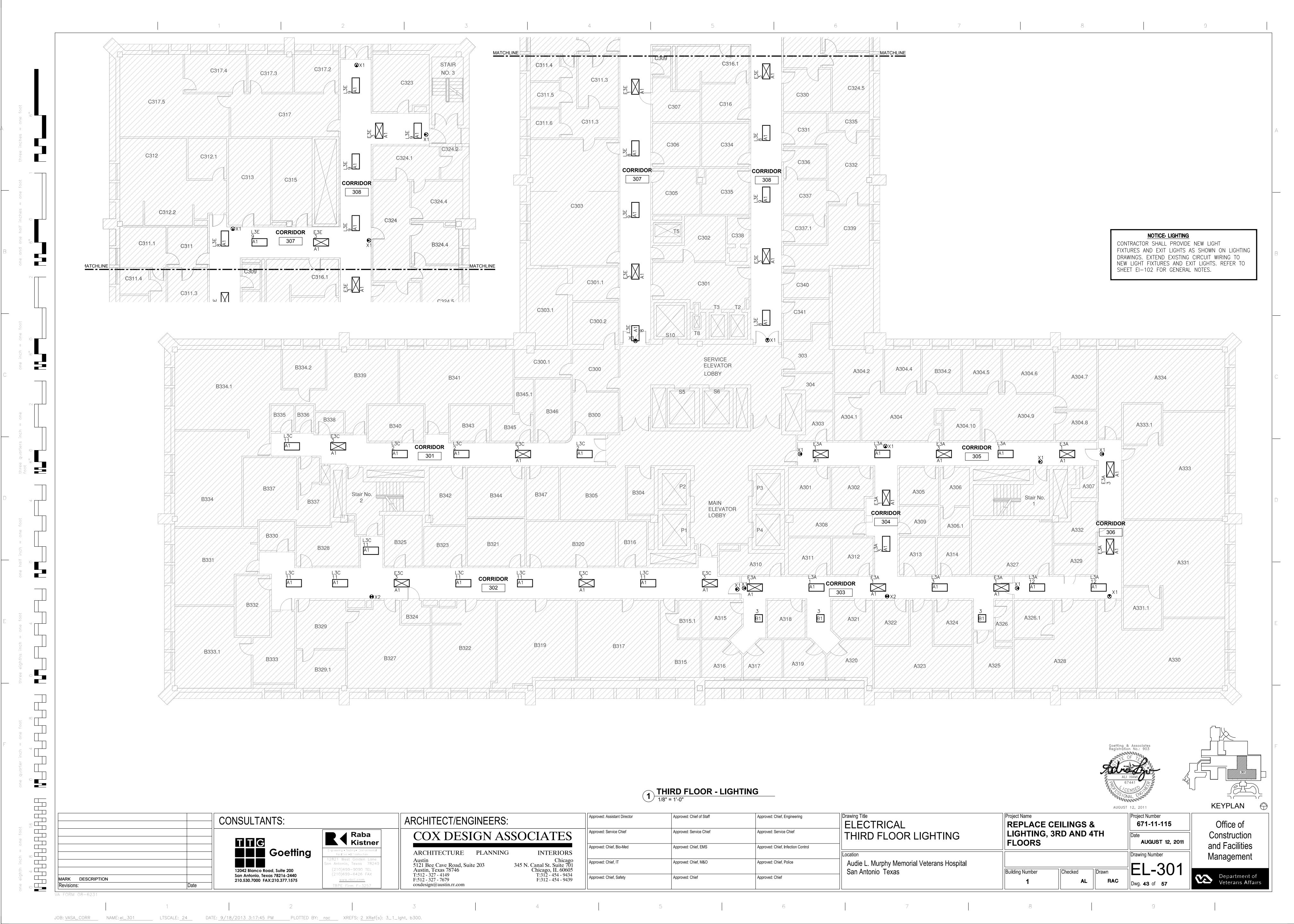
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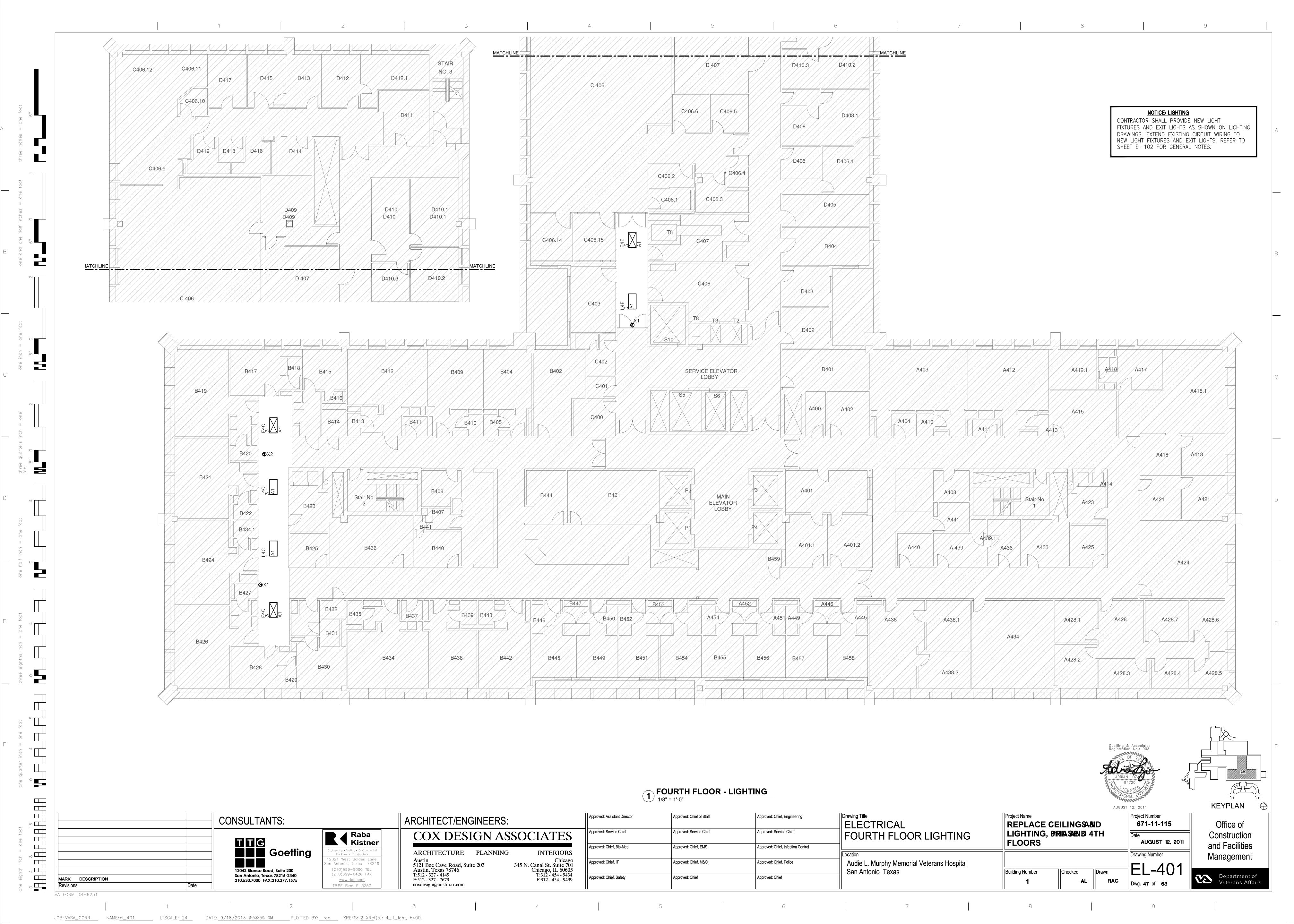
Dwg. **32** of **57**

Department of Department of Veterans Affairs





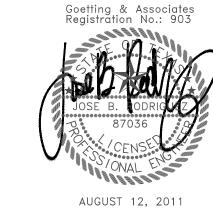




FIRE AND SPECIAL SYSTEMS SYMBOLS & ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

| SYMBOL | DESCRIPTION |
|-----------------|------------------------|
| FLOOR PLAN VIEW | |
| S | SPEAKER |
| SD | SMOKE DETECTOR |
| | SPRINKLER |
| N | NURSE CALL |
| CAM | CAMERA |
| TM | TRAFFIC MIRROR |
| (DS) | DECONTAMINATION SHOWER |
| | TELEMETRIC DEVICE |



Drawing Title
FIRE PROTECTION Project Number Approved: Chief, Engineering Approved: Assistant Director Approved: Chief of Staff CONSULTANTS: ARCHITECT/ENGINEERS: 671-11-115 REPLACE CEILINGS & Office of Approved: Service Chief Approved: Service Chief LIGHTING, 3RD AND 4TH Raba Kistner COX DESIGN ASSOCIATES SYMBOLS & ABBREVIATIONS Construction Goetting

12042 Plance Board Suite 200 FLOORS **AUGUST 12, 2011** and Facilities Approved: Chief, Bio-Med Approved: Chief, EMS Approved: Chief, Infection Control ARCHITECTURE PLANNING **INTERIORS** Drawing Number Management Chicago 345 N. Canal St. Suite 701 Chicago, IL 60605 T:312 - 454 - 9434 F:312 - 454 - 9439 Austin
5121 Bee Cave Road, Suite 203
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coxdesign@austin.rr.com Audie L. Murphy Memorial Veterans Hospital San Antonio Texas Approved: Chief, IT Approved: Chief, M&O Approved: Chief, Police 12042 Blanco Road, Suite 200 San Antonio, Texas 78216-2440 210.530.7000 FAX:210.377.1575 (210)699-9090 TEL Building Number (210)699-6426 FAX Department of Veterans Affairs Approved: Chief, Safety Approved: Chief Approved: Chief DESCRIPTION

JOB: <u>VASA_CORR</u> NAME: <u>fi_101</u> LTSCALE: <u>1</u> DATE: <u>9/18/2013 3:20:52 PM</u> PLOTTED BY: <u>rac</u> XREFS: <u>0 XRef(s)</u>: <NONE>

